Funktionen und Spezifikation

ACP 5

ACP 5 ist eine Zentralsteuerung, die einzeln oder in Gruppen von höchstens 256 Geräten an einer Stelle verwalten kann.
ACP 5 kann die in jedem Raum eines Gebäudes installierten Geräte von einer Stelle, wie einem Gebäude- oder Schulverwaltungsbüro, aus überwachen oder steuern.

[ACP 5 Funktionen]

- Umgebungseinstellungsfunktion unter Benutzung der externen Tasten
- Im Netzserver enthaltene Funktion
- Die Geräte können verknüpft werden

[ACP 5 Komponenten]

- Komponenten

[Bauteilbezeichnungen ACP 5]

- Bauteilbezeichnungen

[ACP 5 Hardwarespezifikation]

- Hardwarespezifikation

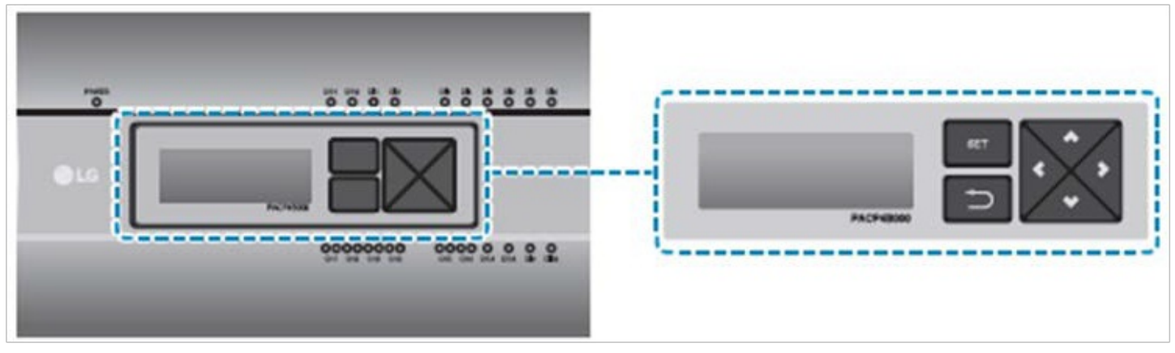
WARNUNG

Dieses Gerät entspricht laut CISPR 32 der Klasse A. In Wohngebieten kann dieses Gerät Funkstörungen verursachen.

Umgebungseinstellungsfunktion unter Benutzung der externen Tasten

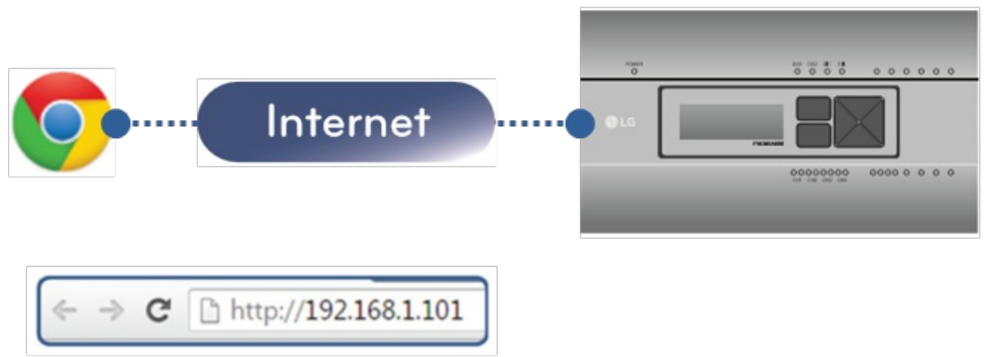
ACP 5 kann durch die Benutzung der extern montierten Tasten die folgenden Funktionen einstellen.

- Netzwerkumgebungs- (IP-Adresse, Netzmaske, Tor) Einstellung
- SW-Aktualisierungsfunktion
- Daten-Backup-Funktion
- Datenwiedergewinnungsfunktion
- RS-485 Kommunikations-Ereignisprotokollierung
- Die zu verwendende Sprache auf dem ACP 5-Bildschirm einstellen
- Überprüfen Sie die Netzwerkverbindung-Funktion
- HTTPS-Port-Initialisierungsfunktion



Im Netzserver enthaltene Funktion

Die Suchmaschine kann ohne die Installierung eines getrennten Programms benutzt werden, um die IP-Adresse des ACP 5 ins Adressenfeld einzugeben, um auf den ACP 5-Netzserver für die Gerätesteuerung und Überwachung zuzugreifen.



- Steuerung von max. 256 Klimageräte
- Fehler- und Operationsstatusüberwachung
- Spitzen-/Bedarfsgerechte Steuerung
- Systemeinstellungsfunktion

Die Geräte können verknüpft werden

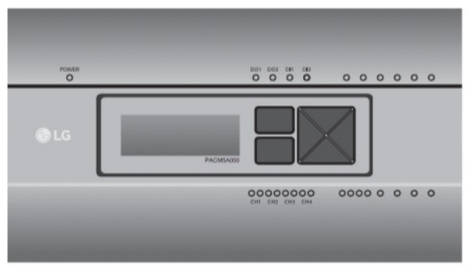
Die Geräte von ACP 5, die verknüpft werden können, sind folgende.

Gerät	ACP 5
AC Ez(Touch)	o
Einfache Zentralsteuerung	o
AC Smart 5	o
AC Manager 5	o
Ko-Klimaanlage	o
ERV	o
Heating	o
AHU	o
Kältemaschine	o
EXP. I/O	o
Luftreiniger	o
Bedarfssteuerung	o

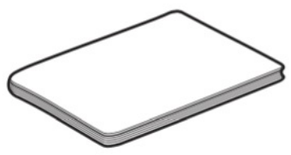
Komponenten

Die Komponenten des folgenden Bilds sind im ACP 5-Paket eingebunden.

Öffnen Sie das Paket und prüfen Sie, ob alle entsprechenden Komponenten eingebunden sind.



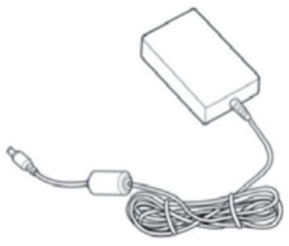
ACP 5



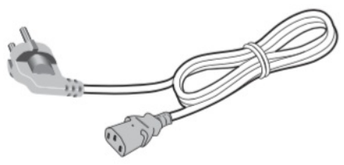
Manual



Screw



Power Supply Adaptor
Input: 100-240 V~ 50/60 Hz, 1.2 A
Output: 12 V⎓ 3.33 A, 40 W MAX



Power Cord
250 V~, 3 A



SD Card 8 GB

Hinweis

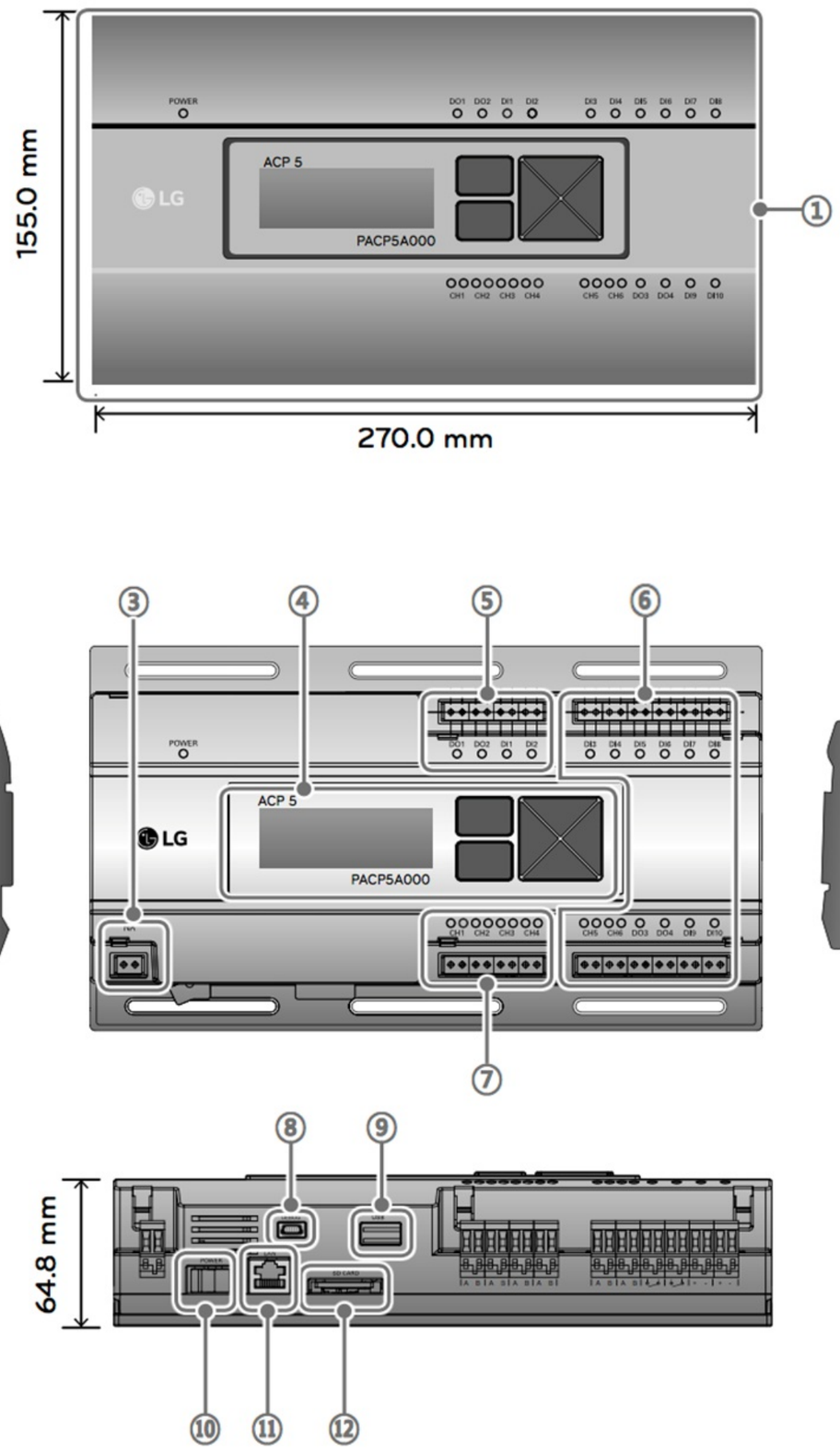
Komponenten oder Optionen können von den tatsächlichen Produktbild abweichen.

Achtung

Die von unserer Firma zur Verfügung gestellte SD-Karte dient zur Sicherung und Wiederherstellung von Daten, wenn der Service von einem qualifizierten Servicetechniker erbracht wird. Verwenden Sie nicht für andere Zwecke.

Bauteilbezeichnungen

ACP 5 besteht in der folgenden Form.



Nr.	Kategorie	Inhalte
①	Abdeckung	Vordere Abdeckung des ACP 5
②	Adapter-Verbindungsstecker	Stöpsel zum Anschließen des DC 12 V an den Stromversorgungs-Adapter
③	Stromversorgungsbuchse	24 V~-Anschluss für die Stromverbindung (wird vom DC 12 V-Modell nicht unterstützt)
④	Tasten und LCD	Tasten und LCD zum Einstellen der Netzwerkumgebung und zum Anzeigen anderer Informationen
⑤	Grundlegende externe Eingangs-/Ausgangssignalsteckdosen	Anschlussports zum Anschluss an externe Eingangs/Ausgangssignale (DI:2, DO:2)
⑥	Optionale Eingabe/Ausgabe und RS-485 Kommunikationsport	Anschlussport zum Anschluss an externe Eingangs/Ausgangssignale und den RS-485 Kommunikationsport für externe Erweiterung (8 DI's, 2 DO's, 2 RS-485 Kommunikationsports)
⑦	RS-485 Kommunikationsanschluss	RS-485 Kommunikationsports zum Anschluss an die Klimaanlage und die ERV sausrüstung (insgesamt 4)
⑧	Mini-USB-Anschluss	USB zum seriellen Anschluss für Software-Fehlerbeseitigung
⑨	USB-Anschluss	Für Softwareaktualisierungen und Datensicherung, Lonworks Inbetriebnahme mit U60FT Modul
⑩	Stromschalter	Schalter zum Ein- und Ausschalten des Stroms des ACP 5
⑪	Ethernet-Anschluss	Ethernet-Port zum Anschluss an Internet und AC Manager IV
⑫	SD-Kartenschlitz	Zur RS-485 Kommunikationsdatenspeicherung

Hardwarespezifikation

Die ACP 5-Hardwarespezifikation ist, wie folgt.

Kategorie	Inhalte
Verrbauchstemperaturgrenze	0 °C ~ 40 °C
Nennspannung	DC 12 V ⎓
Nennstromstärke	Max 2,3 A
Kommunikationsanschlüsse	• Ethernet 10 / 100 BASE-T • USB : USB-Host (SW-Aktualisierung, Datensicherung, Lonworks Inbetriebnahme mit U60FT Modul) • Mini-USB-Gerät (Fehlerbeseitigung) • RS-485-Kommunikationsanschlüsse 6EA • SD-Kartenschlitz (Datenaktualisierung, Zur RS-485 Kommunikationsdatenspeicherung)
Externe Eingangs-/Ausgangsanschlüsse	DI 10 EA, DO 4 EA
LED	27 EA (Strom- und Kommunikationsstatus)
LCD	20 x 4 Buchstaben-LCDs (Einstellungen der Netzwerkumgebung und Informationsanzeige)

Benutzerhandbuch

Installation und Einstellung

Die Installation und Einstellungsmethode werden beschrieben.

[Installationsreihenfolge]

- Bestellen der ACP 5-Installation

[Installation und Kabelverbindung]

- Anbringen an der Wand
- Montieren auf der DIN-SCHIENE
- Anschluss des Ethernet-Kabels (LAN-Kabel)

[LCD-Umgebungseinstellung]

- LCD-Umgebungseinstellung

① Netzwerkadresseneinstellung [Network Info]

- Netzwerkadresseneinstellungsmethode
- IP-Adresseneinstellung
- Benutzen der dynamischen IP mit DHCP
- Prüfen des Zugriffs

② [Function]

- Software-Aktualisierung
- DB-Backup
- DB-Wiedergewinnung

Bestellen der Installation

Zum Benutzen des ACP 5 sollte er in der folgenden Reihenfolge installiert werden.

STEP 1. Installation der ACP 5 und Anschluss der Kabel

Vor der Installation der ACP 5 prüfen Sie die Vorsichtsmaßnahmen.

STEP 2. Studieren Sie das Kabelanschluss-Diagramm des gesamten Systems

Studieren Sie das Kabelanschluss-Diagramm der Anlage, in der die ACP 5 installiert wird.

STEP 3. Stellen Sie die Adresse für alle Geräte ein

Stellen Sie die Adresse des ACP 5 so ein, dass sie sich nicht mit der angeschlossenen Geräteeinheit überschneidet.

STEP 4. Stellen Sie PI485 ein und schließen Sie die Kabel an

Stellen Sie den DIP-Schalter von PI485 genau ein und schließen Sie das RS-485 Kommunikationskabel an.

STEP 5. ACP 5-Installation und Kabelanschluss

Installieren Sie ACP 5 und schließen Sie das Netzwerk und die anderen Kabel an.

STEP 6. ACP 5-Netzwerkadresseneinstellung

Kommunikationskabel an.

STEP 7. Richten Sie die ACP 5-Funktionen ein

Richten Sie Sprache, Spitze/Nachfrage, ob der Plan genutzt wird, ob die Leistungsanzeige genutzt wird usw. ein

STEP 8. Eingabe Sie alle Geräte Informationen ein

Geben Sie die Geräteinformation in Web GUI, welches das ACP 5-Betriebsprogramm ist, ein und speichern Sie diese.

STEP 9. Web GUI-Steuerung/Überwachung prüfen

Greifen Sie auf Web GUI, welches das ACP 5-Betriebsprogramm ist, zu und prüfen Sie, ob die Steuerung/Überwachung richtig durchgeführt wird.

Achtung

- **ACP 5-Installation**

  Der ACP 5-Installation bedarf einer professionellen Technik. Daher sollte die in diesem Kapitel beschriebene Installation von einem zertifizierten Installateur durchgeführt werden.

  Für Fragen und Anforderungen hinsichtlich der Installation kontaktieren Sie bitte den Kundendienst oder das spezialisierte von LG autorisierte Installationsgeschäft.

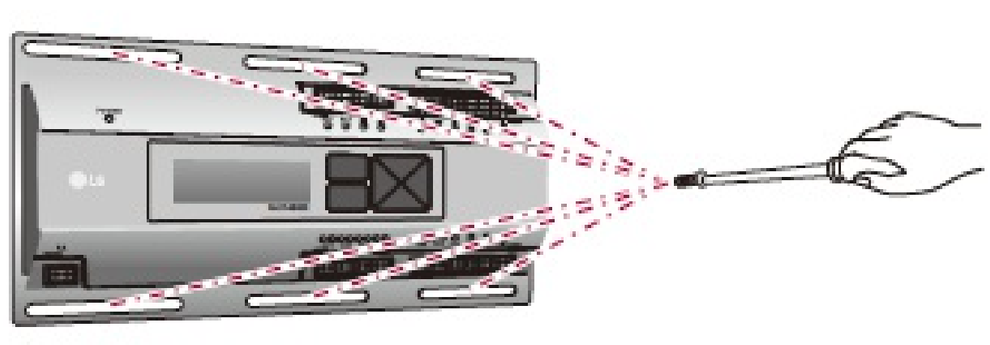
Anbringen an der Wand

Produkt kann durch das Anbringen an der Wand installiert werden.

Um Produkt an der entsprechenden Stelle anzubringen, verfahren Sie entsprechend den folgenden Anweisungen.

Hier wird die Installationsmethode von Produkt mit einem Beispiel der Installation von Produkt an der Wand beschrieben.

- Legen Sie die Stelle fest, um Produkt zu installieren.
  Vor dem Installieren von Produkt prüfen Sie, ob es sich um eine entsprechende Stelle für den Anschluss von Produkt, des Stroms und des LAN-Kabels handelt.
- Benutzen Sie einen Schraubenzieher für das Anbringen an der Wand. Entsprechend des Installationsorts können Sie ihn wie im folgenden Bild anbringen.



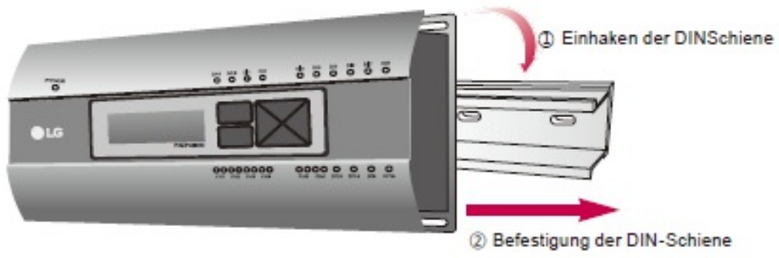
Achtung

Wenn Sie einen Ort für die Installation auswählen, wählen Sie einen Ort, auf den externe Personen nur schwer zugreifen können. Produktkontrollrechte können von Außenstehenden ausgenutzt werden.

Montieren auf der DIN-SCHIENE

Produkt kann auf einer DIN-SCHIENE mit einer Breite von 35 mm und einer Höhe von 7,5 mm angebracht werden. Um Produkt an einer entsprechenden Stelle anzubringen, verfahren Sie entsprechend der folgenden Anweisungen. Hier wird die Installationsmethode mit einem Beispiel der Installation auf einer DIN-SCHIENE beschrieben.

- Legen Sie die Stelle fest, um zu installieren.
- Vor dem Installieren von Produkt prüfen Sie, ob es sich um eine entsprechende Stelle für den Anschluss von Produkt, des Stroms und des LAN-Kabels handelt.
- DIN-SCHIENE installieren.
- Haken Sie das Oberteil des Produkt auf der DIN-SCHIENE ein.
- Drücken Sie den Hauptkörper des Produkt, bis Sie das Geräusch der Installation hören.
- Ziehen Sie am Produkt. um zu prüfen, ob er fest sitzt.



Achtung

- Nach dem Installieren auf der DIN-SCHIENE fixieren Sie diese nicht mit Schrauben an der Wand. Produkt könnte beschädigt werden.
- DIN-SCHIENEN-Fixierschraubenspezifikationen: M3, Schraubenkopfhöhe 1,75 mm ~ 2,0 mm, Schraubenkopfdurchmesser 5,5 mm ~ 7,0 mm

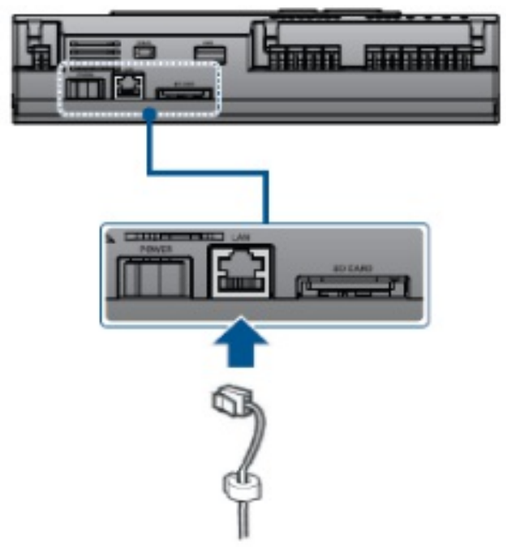
Anschluss des Ethernet-Kabels (LAN-Kabel)

Sie müssen das Ethernet-Kabel an den Produkt anschließen.

AC Manager 5 kann durch das Ethernet-Kabel an eine Nabe oder ein ACP angeschlossen werden.

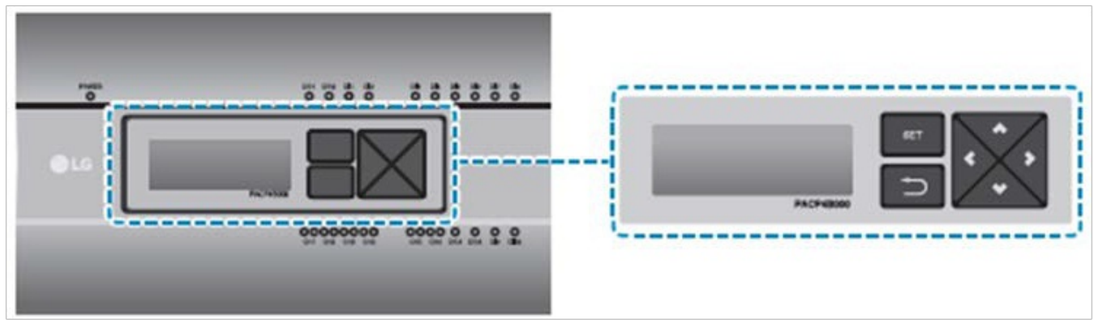
ACP 5 kann durch das Ethernet-Kabel an eine Nabe oder ein PC angeschlossen werden.

Wenn die Produkt mit dem Basis-Internet-Netzwerk der Anlage verbunden wird, erfolgt dies generell über einen Hub. Verwenden Sie ein Ethernet-Kabel zum Anschluss an den LAN-Port der Produkt.

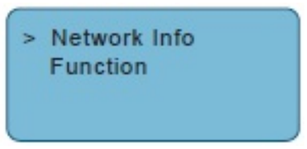


LCD-Umgebungseinstellung

Die Netzwerkumgebung des Produkt kann durch das LCD und die Tasten an der Vorderseite des Produkt eingestellt werden. Die derzeitige Produkt-Information und das Menü werden auf dem LCD angezeigt und die ⮌, SET Taste und die **[▲], [▼], [◀], [▶]** Tasten können gedrückt werden, um das Menü zu wechseln und auszuwählen.



Drückt man die **[SET]** Taste, wird der Umgebungseinstellungmodus eingegeben. Wenn Sie die **[SET]** Taste zum ersten Mal drücken, wird das Menü zum Einstellen der IP-Adresse angezeigt, wie unten gezeigt.



Drücken Sie die **[▲], [▼]** Taste, um den Pfeil auf der gewünschten Funktion anzubringen.

- Im **[Network Info]** Menü geben Sie die Netzwerkinformation ein, wie die IP-Adresse des Produkt.
- Im **[Function]** Menü werden die Softwareservicefunktionen des Produkt unterstützt.

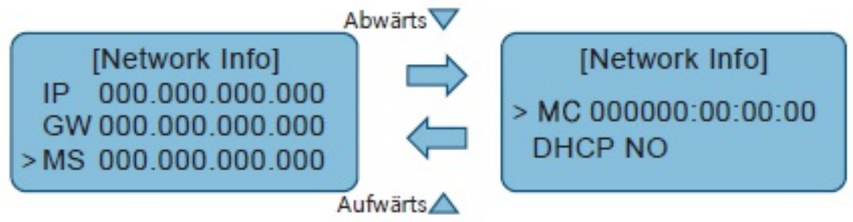
Achtung

- **Das [Function] Menü wird vom Systemklimaanlagenkundendiensttechniker benutzt und der Benutzer sollte diese Funktion nicht benutzen. Wird diese Funktion falsch benutzt, könnte ein Fehlschlagen des ACP 5 verursacht werden.**

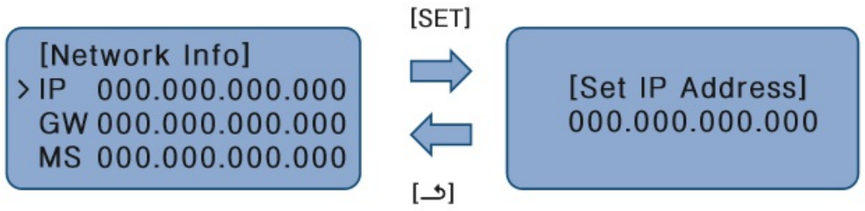
Netzwerkadresseneinstellungsmethode

Im **[Network Info]** Menü wählen Sie durch das Benutzen der **[▲], [▼]** Taste die Kategorie zum Einstellen aus.

Auf dem ersten Bildschirm werden im **[Network Info]** Menü die IP-, Tor- und Netzmaskeneinstellungen angezeigt und Sie können die **[▼]** Taste benutzen, um die MAC-Adresse und DHCP-Einstellung zu prüfen.



Um die Netzwerkeinstellung zu wechseln, lokalisieren Sie den Pfeil auf der entsprechenden Einstellungsposition und drücken Sie die **[SET]** Taste, um die entsprechende Bildschirmeinstellung einzugeben.



Die Netzwerksadresse besteht aus vier 3-stelligen Zahlen. Im Fall der Einstellung der Netzwerkeinstellung wird der Name der Bezugsadresse auf dem LCD des ACP 5 angezeigt und die **[▲], [▼], [◀], [▶]** Taste muss für die Einstellung gedrückt werden.

Drücken Sie die **[▲], [▼]** Taste, erhöht sich/sinkt die Zahl der Dezimalstelle, auf der sich der Zeiger befindet, und drücken Sie die **[◀], [▶]** Taste, bewegt er sich auf die linke/rechte Dezimalstelle der Netzwerkadresse.

Beispiel zum Drücken der **[▼]** Taste



Beispiel zum Drücken der **[▶]** Taste



Achtung

- Netzwerkadresseneinstellung

  Die Netzwerkadresse kann in 4 Oktette getrennt werden, basierend auf ., und jede Zahl sollte 255 oder weniger betragen. Zahlen über 255 können nicht eingetragen werden.

Hinweis

Netzwerkadresse zuordnen

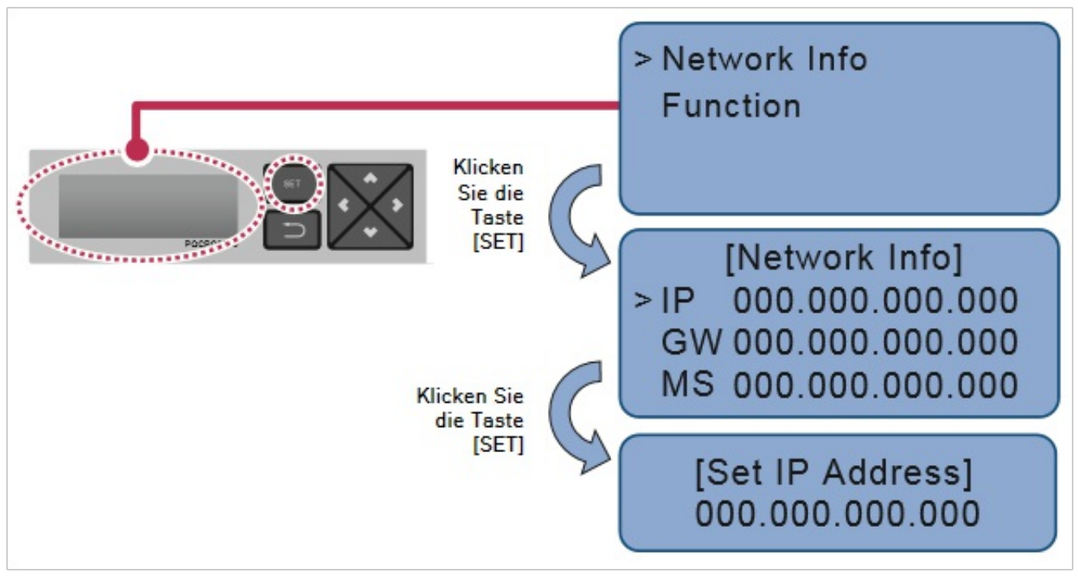
- Das Netzwerk sollte durch die für das Netzwerk der entsprechenden Seite verantwortliche Person zugeordnet werden. (IP-Adresse, Toradresse, Netzmaske)
- AC Manager 5 kann sowohl den fixen IP-Typen und den dynamischen IP-Typen benutzen, aber der fixe IP-Typ ist zu empfehlen und sollte der dynamische IP-Typ benutzt werden, könnten dem Benutzer dadurch Unannehmlichkeiten entstehen.
- Wird der fixe IP-Typ benutzt, müssen Sie von der für das Netzwerk der entsprechenden Seite verantwortlichen Person das Netzwerk erhalten (IP-Adresse, Toradresse, Netzmaske).

IP-Adresseneinstellung

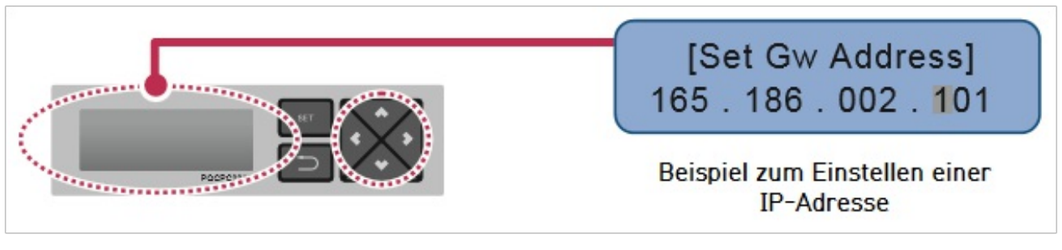
Damit der Benutzer die Funktionen des Produkt durch das Internet benutzen kann, kann dem Produkt eine einzigartige IP-Adresse zugeordnet oder eine dynamische IP-Einstellung benutzt werden.

Das Nächste ist die Einstellung einer fixen IP-Adresse. Bitte verfahren Sie entsprechend der Reihenfolge.

1. Drücken Sie die **[SET]** Taste des Produkt. Der folgende Menübildschirm wird angezeigt.
   - Drücken Sie die **[SET]** Taste erneut, wird der **[Network Info]** Einstellungsbildschirm angezeigt.



2. Während die IP ausgewählt wird, falls die **[SET]** Taste gedrückt wird, wird der Bildschirm zum Eintragen der IP-Adresse angezeigt.

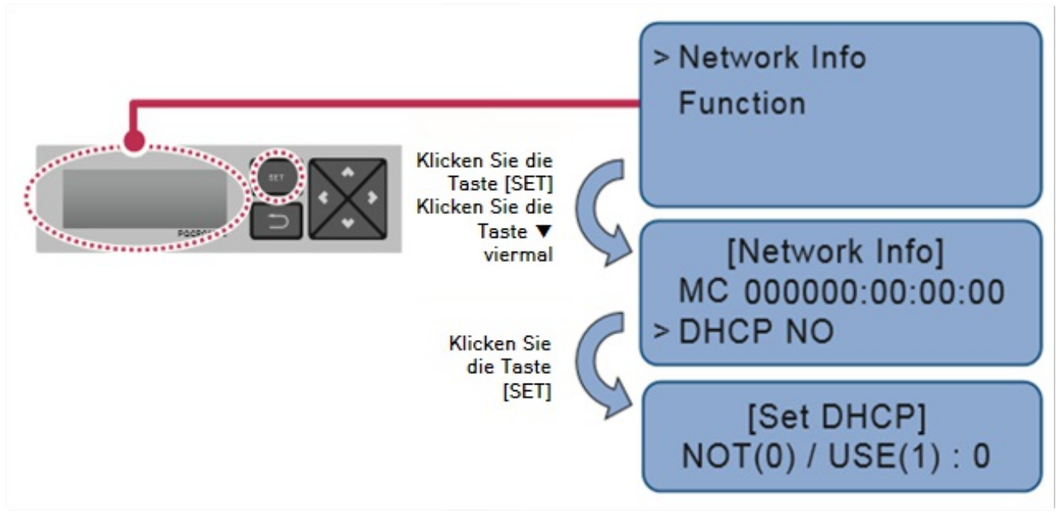


Benutzen der dynamischen IP mit DHCP

Damit der Benutzer die Funktionen des Produkt durch das Internet benutzen kann, kann dem Produkt eine einzigartige IP-Adresse zugeordnet oder eine dynamische IP-Einstellung benutzt werden.

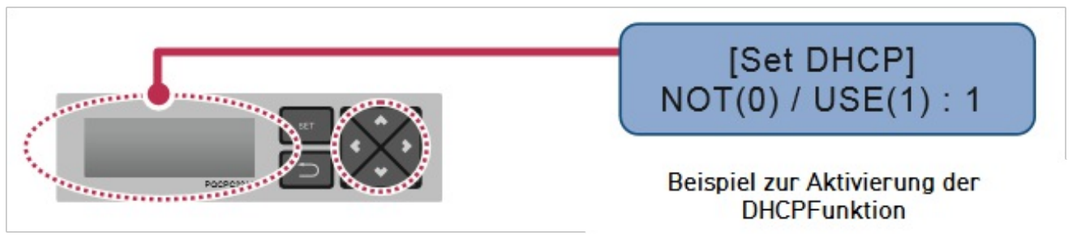
Das Nächste ist die Einstellung der dynamischen IP-Adresse. Bitte verfahren Sie entsprechend der Reihenfolge.

1. Drücken Sie die **[SET]** Taste des Produkt. Der folgende Menübildschirm wird angezeigt.
   - Drücken Sie die **[SET]** Taste erneut, wird der [Network Info] Einstellungsbildschirm angezeigt.
   - Während DHCP ausgewählt wird, falls Sie die **[SET]** Taste drücken, können Sie eintragen, ob die DHCP-Funktion benutzt werden soll.



2. Benutzen Sie die **[▲], [▼]** Taste, um einzustellen, ob die DHCP-Funktion benutzt werden soll.
   - Drücken Sie die **[▲]** Taste, wird die Benutzung der DHCP-Funktion eingestellt, und wenn Sie die **[▼]** Taste drücken, wird die Nichtbenutzung der DHCP-Funktion eingestellt.

3. Um eine dynamische IP zu benutzen, stellen Sie die Benutzung der DHCP-Funktion ein.



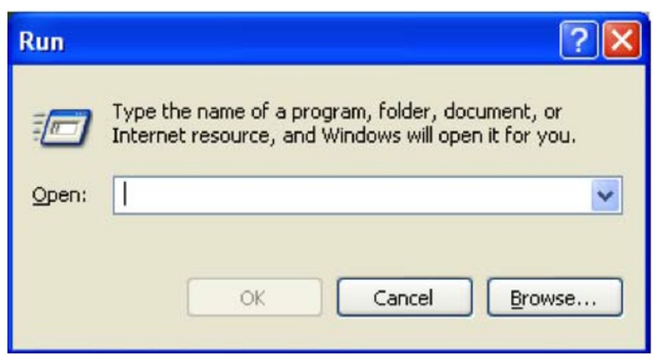
Achtung

- Wird der dynamische IP-Typ benutzt, kehrt die benutzte IP zum DHCP-Server zurück und Sie werden vielleicht nicht in der Lage sein, auf zuzugreifen. In diesem Fall können Sie erneut IP-Adresse einstellen vorn am LCD anklicken.

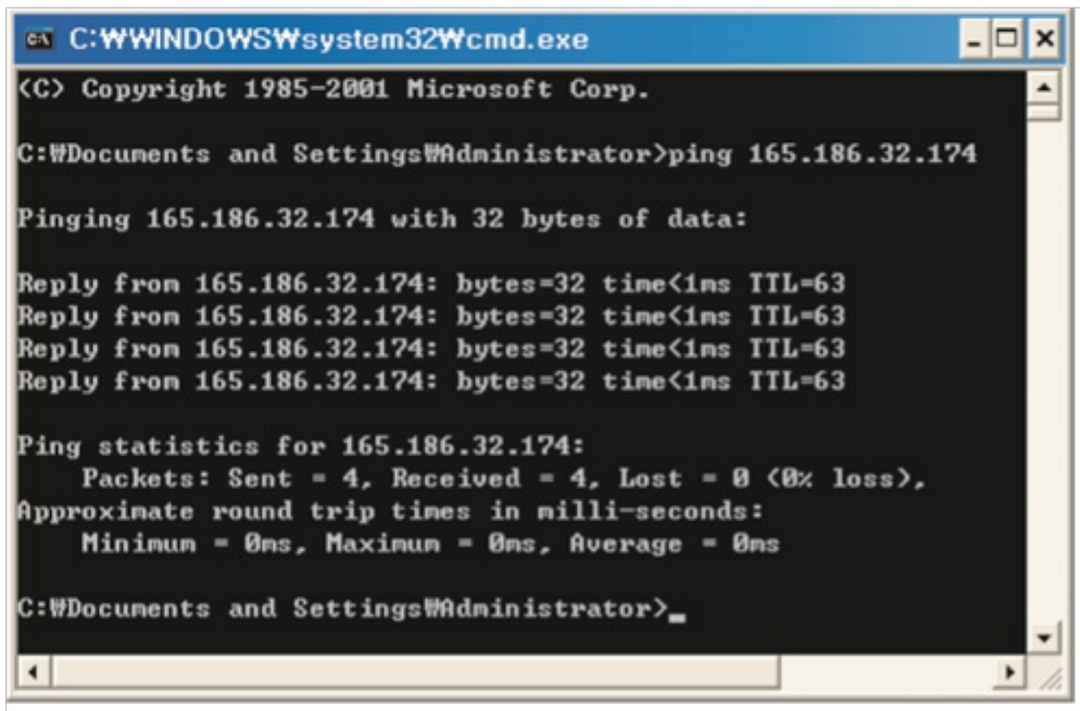
Prüfen des Zugriffs

Es wird geprüft, ob die Netzwerkadresseneinstellung richtig gemacht wurde.
Sie können die Möglichkeit des Zugriffs auf Produkt durch den PING-Test prüfen.

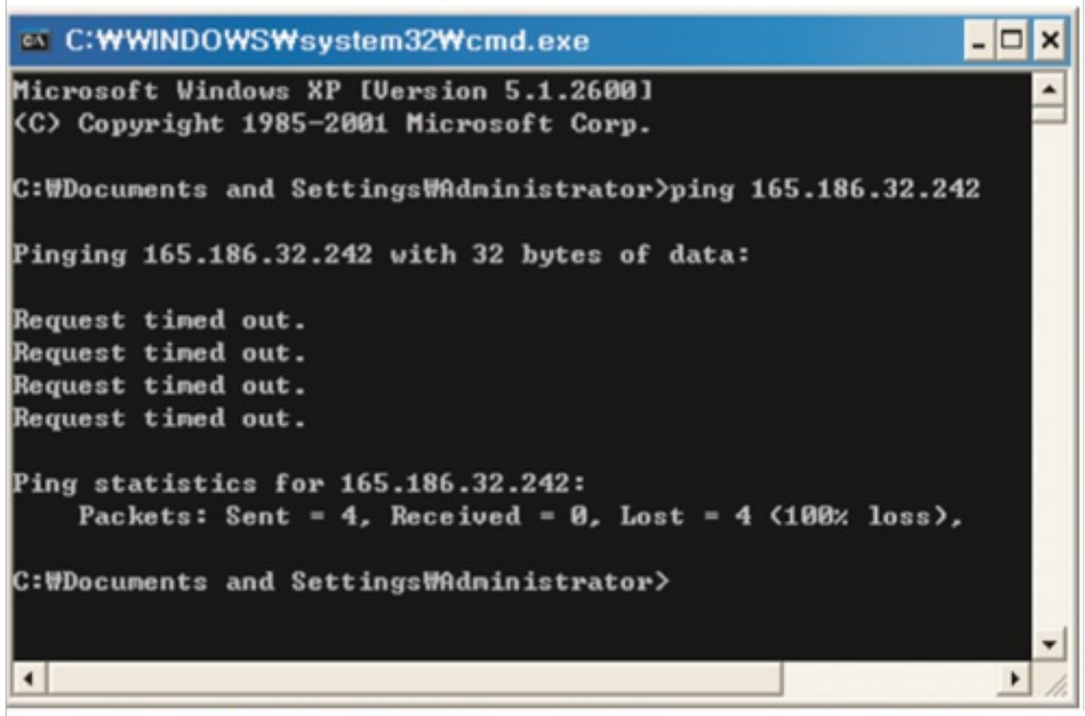
1. Mit den Eingabefeldern **[Start]**, **[Run]**, und **[cmd]**, können Sie den DOS-Bildschirm öffnen, wie folgt.



2. Im DOS-Bildschirm können Sie "ping" eintragen, um den PING-Test laufen zu lassen, wie folgt.



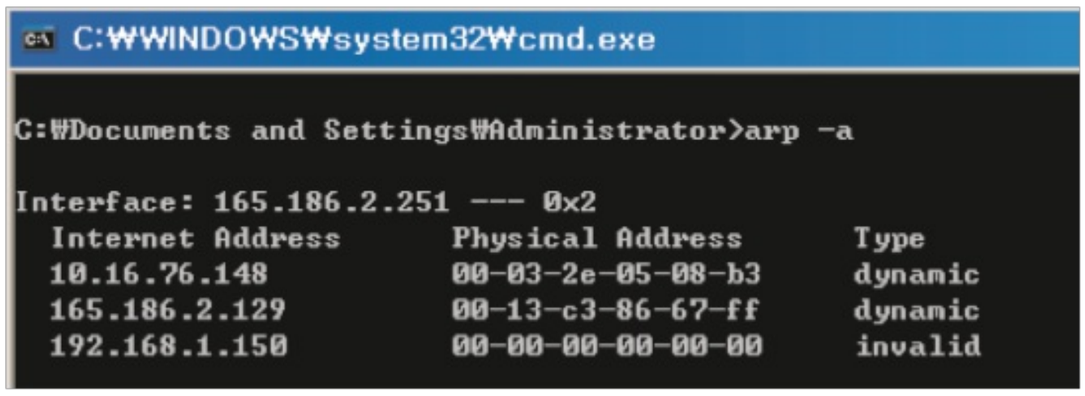
Wenn die Netzwerk-Einstellung ordnungsgemäß erfolgt ist



Wenn die Netzwerk-Einstellung nicht ordnungsgemäß erfolgt ist

Hinweis: Wenn der PC und Produkt in einer Nabe oder einer Schaltnabe miteinander verbunden sind, können Sie nicht auf Produkt zugreifen.

- Ist das genau nach dem Wechsel der IP-Einstellung des Produkt, stellen Sie den Strom des Produkt zurück.
- Ist das genau nach dem Anschluss des LAN-Kabels an die Nabe oder den Schalter, kann es die Nabe oder den Schalter Zeit kosten, den Produkt zu erkennen. In so einem Fall kann es helfen, den Strom der Nabe oder des Schalters aus und ein zu schalten.
- Prüfen Sie den Zustand des Ethernet-Kabels (LAN-Kabels).
- Prüfen Sie die ARP-Tabelle des PC, um zu sehen, ob die IP-Adresse des Produkt der MAC-Adresse richtig entspricht. Entsprechen mehrere MAC-Adressen einer IP-Adresse oder werden verschiedene Adressen der MAC-Adresse des PC ausgegeben, könnte ein Host mit derselben IP-Adresse wie der IP-Adresse des Produkt bestehen. In einem solchen Fall sollte die IP-Adresse des Produkt oder die IP-Adresse des entsprechenden Hosts geändert werden.

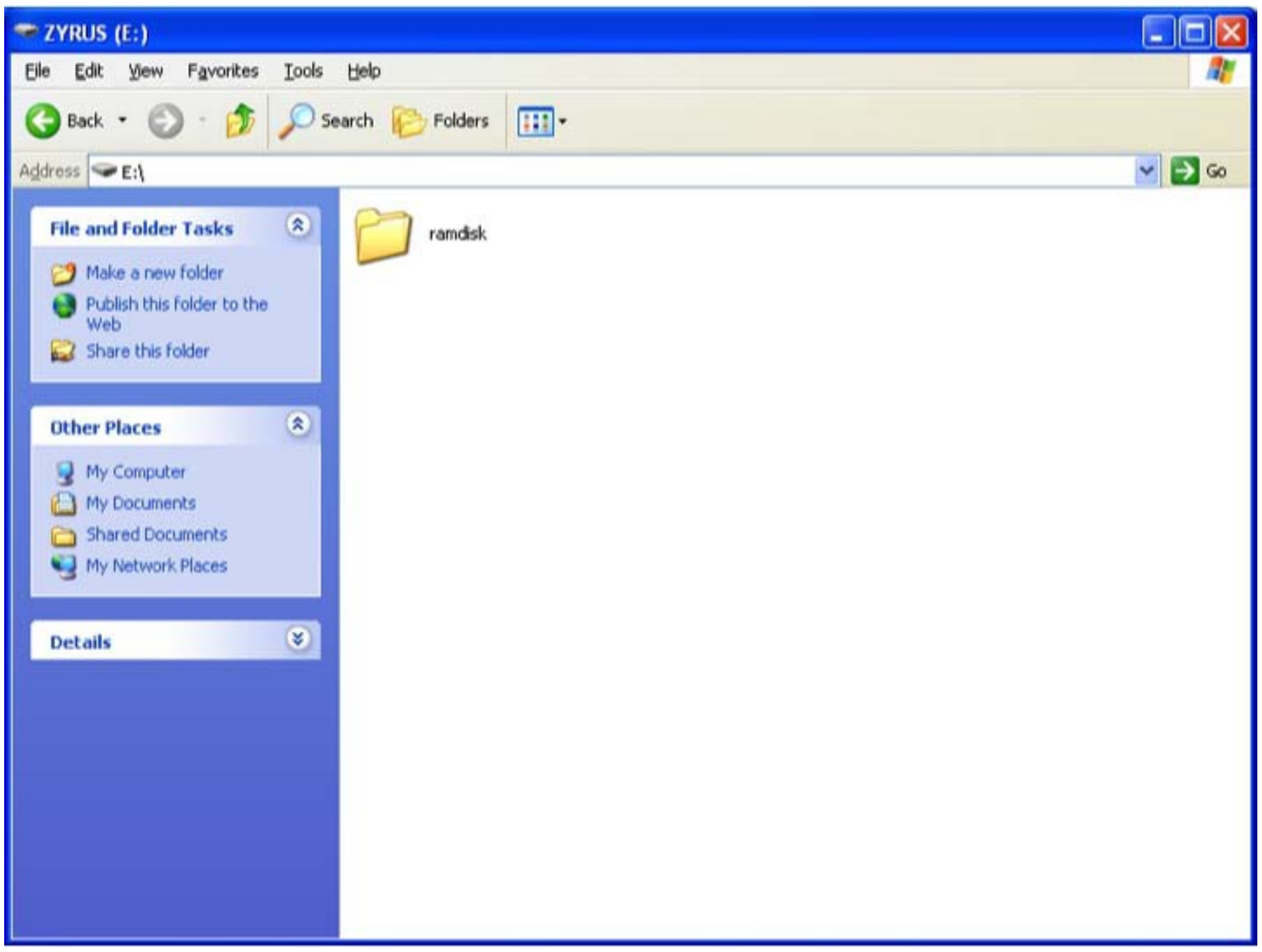


Prüfung der ARP-Tabelle

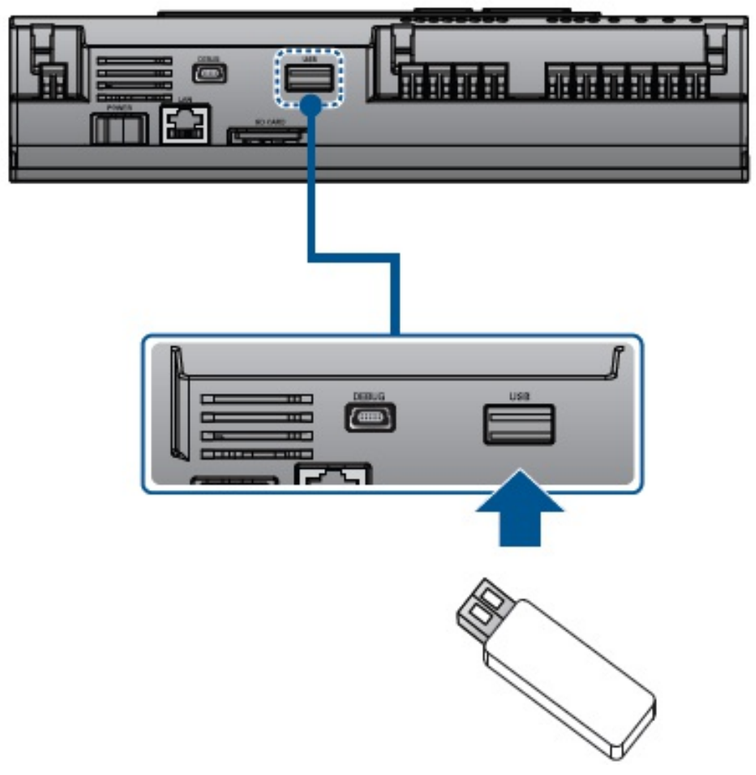
Software-Aktualisierung

Wird es nötig, die Produkt-Software zu aktualisieren, muss das von einem spezialisierten Kundendiensttechniker durchgeführt werden. Die Software-Aktualisierung kann mit einem USB-Speicher durchgeführt werden. Verfahren Sie in folgender Reihenfolge.

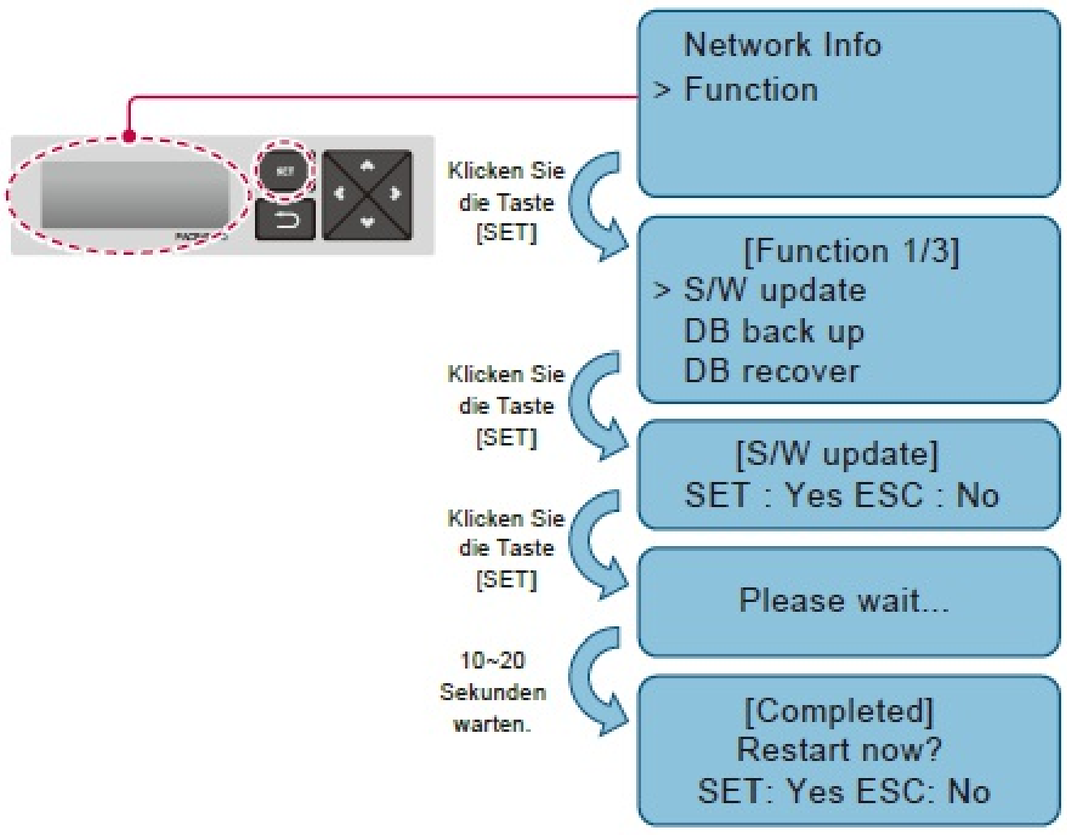
1. Erstellen Sie einen “Ramdisk-” Ordner im USB-Speicher.
2. Geben Sie die S/W-Datei in den 'Ramdisk-' Ordner.
   - Zu dieser Zeit muss nur eine S/W-Datei eingegeben werden.
     (Eine Datei der neuen Software kann von der LG Electronics System Air Conditioner-Homepage heruntergeladen werden.)



E: geändert werden.



3. Drücken Sie die **[SET]** Taste des Produkt.
4. Wählen Sie das **[Function]** Menü und drücken Sie die **[SET]** Taste.
5. Wählen Sie das **[S/W update]** Menü und drücken Sie erneut die **[SET]** Taste.
6. Um die Software-Aktualisierung laufen zu lassen, drücken Sie erneut die **[SET]** Taste.
   - Warten Sie, während die Software-Aktualisierung läuft.
7. Nach dem Abschluss der Aktualisierung, drücken Sie die **[SET]** Taste, um Produkt erneut zu starten.
   - Selbst, wenn Sie nicht sofort neu starten, wird die Aktualisierung erst nach dem erneuten Laden des Produkt in der Zukunft angewandt.



Achtung

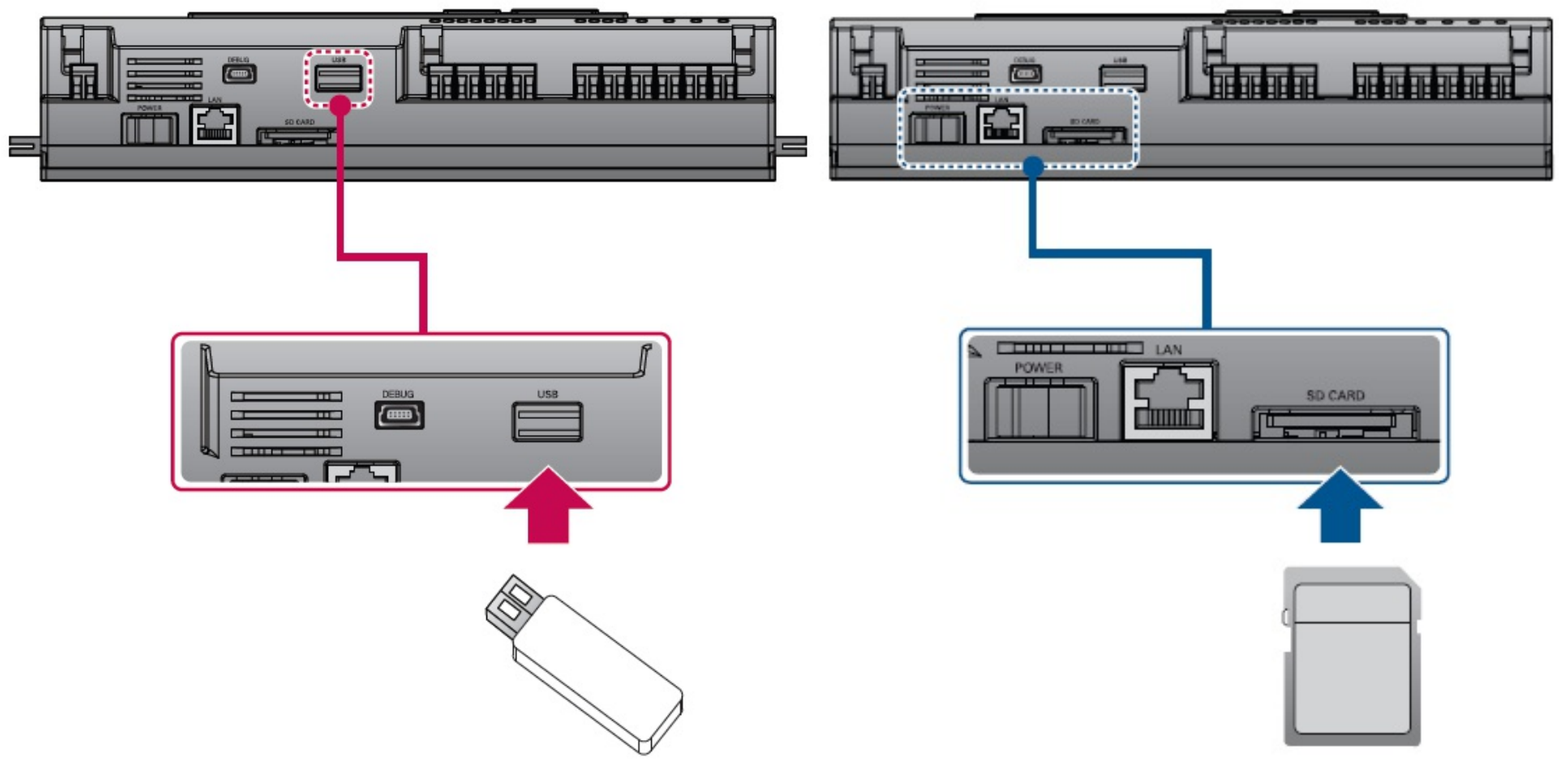
- Während des Fortschreitens der Software-Aktualisierung und während “Please wait…” angezeigt wird, könnte das Ausschalten des Produkt oder das Entfernen des USB-Speichers dem Produkt einen kritischen Schaden verursachen.

DB-Backup

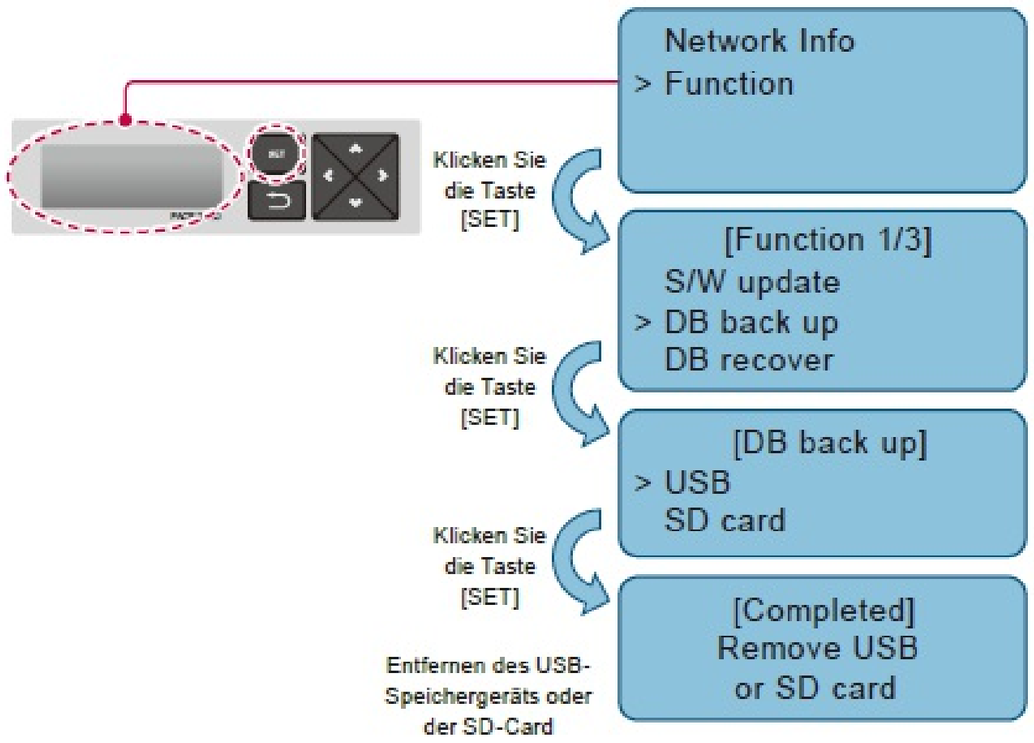
Wird ein Produkt-Daten-Backup nötig, muss dieses von einem spezialisierten Kundendiensttechniker durchgeführt werden.

Das Daten-Backup kann mit einem USB-Speicher oder eine SD-Karte durchgeführt werden. Verfahren Sie in der folgenden Reihenfolge.

1. Fügen Sie den USB-Speicher oder die SD-Karte in den Produkt ein.



2. Drücken Sie die **[SET]** Taste des Produkt.
3. Wählen Sie das **[Function]** Menü und drücken Sie die **[SET]** Taste.
4. Wählen Sie das **[DB back up]** Menü aus und drücken Sie erneut die **[SET]** Taste.
5. Wählen Sie **[USB]** oder **[SD card]** aus und drücken Sie die **[SET]** Taste.
6. Nach Abschluss des Backups, entfernen Sie den USB-Speicher oder die SD-Karte.



Achtung

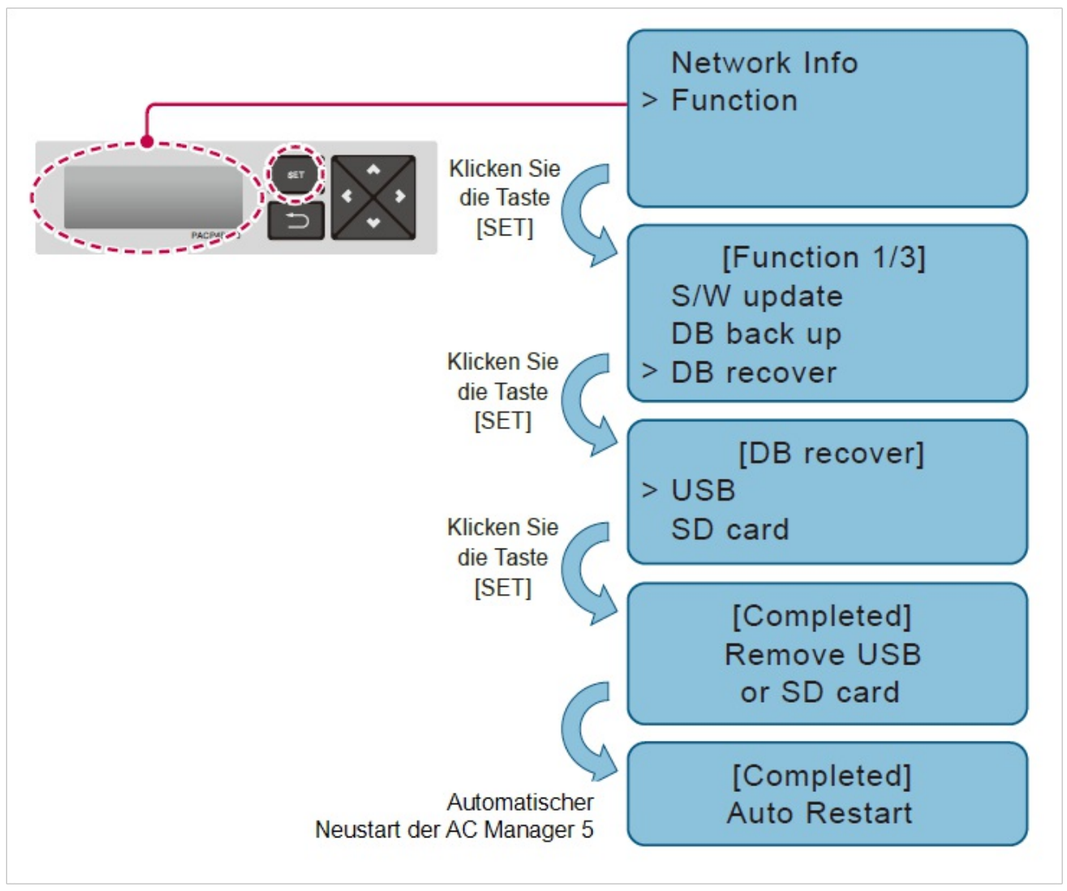
- Vor dem Abschluss des Daten-Backup könnte das Ausschalten des Produkt oder das Entfernen des USB-Speichers oder der SD-Karte dem Produkt einen kritischen Schaden verursachen.

DB-Wiedergewinnung

Sollte die Produkt-Datenwiedergewinnung nötig werden, muss diese von einem spezialisierten Kundendiensttechniker durchgeführt werden.

Die Datenwiedergewinnung kann mit einem USB-Speicher oder einer SD-Karte durchgeführt werden. Verfahren Sie in folgender Reihenfolge.

1. Speichern Sie die Datenbankdatei, um die Wiedergewinnung im USB-Speicher oder der SD-Karte durchzuführen.
   - Speichern Sie die Dateien im “db”-Ordner, wie folgt.
2. Fügen Sie den USB-Speicher oder die SD-Karte in den Produkt ein.
3. Drücken Sie die **[SET]** Taste des Produkt.
4. Wählen Sie das **[Function]** Menü und drücken Sie die **[SET]** Taste.
5. Wählen Sie das **[DB recover]** Menü und drücken Sie erneut die **[SET]** Taste.
6. Wählen Sie **[USB]** oder **[SD card]** aus und drücken Sie die **[SET]** Taste.
7. Nach Abschluss des Backups, entfernen Sie den USB-Speicher oder die SD-Karte.
   - Für die Datenwiedergewinnung AN automatisch neu.



Achtung

- Vor dem Abschluss der Datenwiedergewinnung könnte das Ausschalten des Produkt oder die Entfernung des USB-Speichers oder der SD-Karte dem Produkt einen kritischen Schaden verursachen.

Verbrauch (PC)

- Anmelden/Abmelden
- Konto
- Dashboard
- Innenraum-Feinstaub-Überwachung

[Kontrolle]

- Gerätesteuerung
- Zeitplansteuerung
- Verriegelung
- Zeitgrenzensteuerung
- Hotellösung (BACnet)

[Energie]

- Energieverbrauch
- Energienavigation
- Spitze/Nachfrageteuerung
- Energieeinheit-Kosten

[Historie]

- Betriebshistorie
- Energienavigation Historie
- Voraussichtlicher Betrieb
- Kreislauf

[Einstellung]

- Geräteeinstellung
- Gruppeneinstellung
- Systemeinstellung
- Netzwerkeinstellungen
- Benachrichtigungs-Einstellungen
- Administratoreinstellungen
- Weitere Benutzereinstellungen
- Erweiterte Einstellungen
- TMS-Einstellung
- BACnet/Modbus/Lonworks-Einstellung
- Feinstaub-Überwachung festlegen

Benutzerhandbuch

Über das Internet-Adressfenster kann auf das Produkt mit IP-Adresse zugegriffen werden, um verschiedene zentrale Steuerfunktionen zu verwenden.

Hinweis

- Chrome-Browser werden für die Web-Steuerung empfohlen.
- Für den Zugriff aufs Netz muss die IP-Adresse eingestellt werden.
- Zum Zeitpunkt des ersten Zugriffs müssen Sie das Kennwort des Verwaltungskontos festlegen.
- Alle 90 Tage wird ein Popup zur Verfügung gestellt, welches zur Änderung des Passworts aufruft.
  Für den Schutz personenbezogener Daten und die sichere Nutzung des Geräts müssen Sie das Passwort regelmäßig ändern.

Anmelden

Die Anmeldemethode ist, wie folgt.

1. Bitte geben Sie die IP-Adresse des Produkts in das Internet-Adressfenster ein.
2. Tragen Sie die ID und das Kennwort ins Anmeldefenster ein und klicken Sie die **[Anmelden]** Taste.

Abmelden

Die Abmeldemethode ist, wie folgt.

1. Klicken Sie im Menü auf **[Konto]**.
2. Im Kontoinformationsfenster, klicken Sie die **[Abmelden]** Taste an.

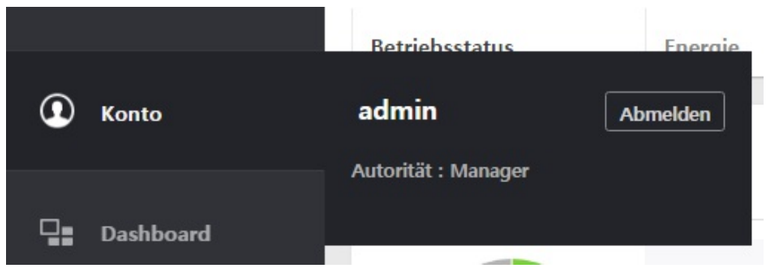
Automatische Anmeldung

Wenn Sie die Option Automatische Anmeldung markiert haben, bleiben Sie angemeldet, bis Sie die Browser-Cookies löschen oder sich abmelden.

- Automatische Anmeldung wird deaktiviert, wenn Sie sich abmelden.
- Wenn Sie Ihren Browser im privaten Modus (in Microsoft Edge im InPrivate-Fenster) ausführen, was bei einigen Browsern möglich ist, kann diese Funktion nicht benutzt werden, weil in diesem Modus keine Cookies gespeichert werden.

Konto

Sie können die Informationen des aktuell angemeldeten Kontos überprüfen.

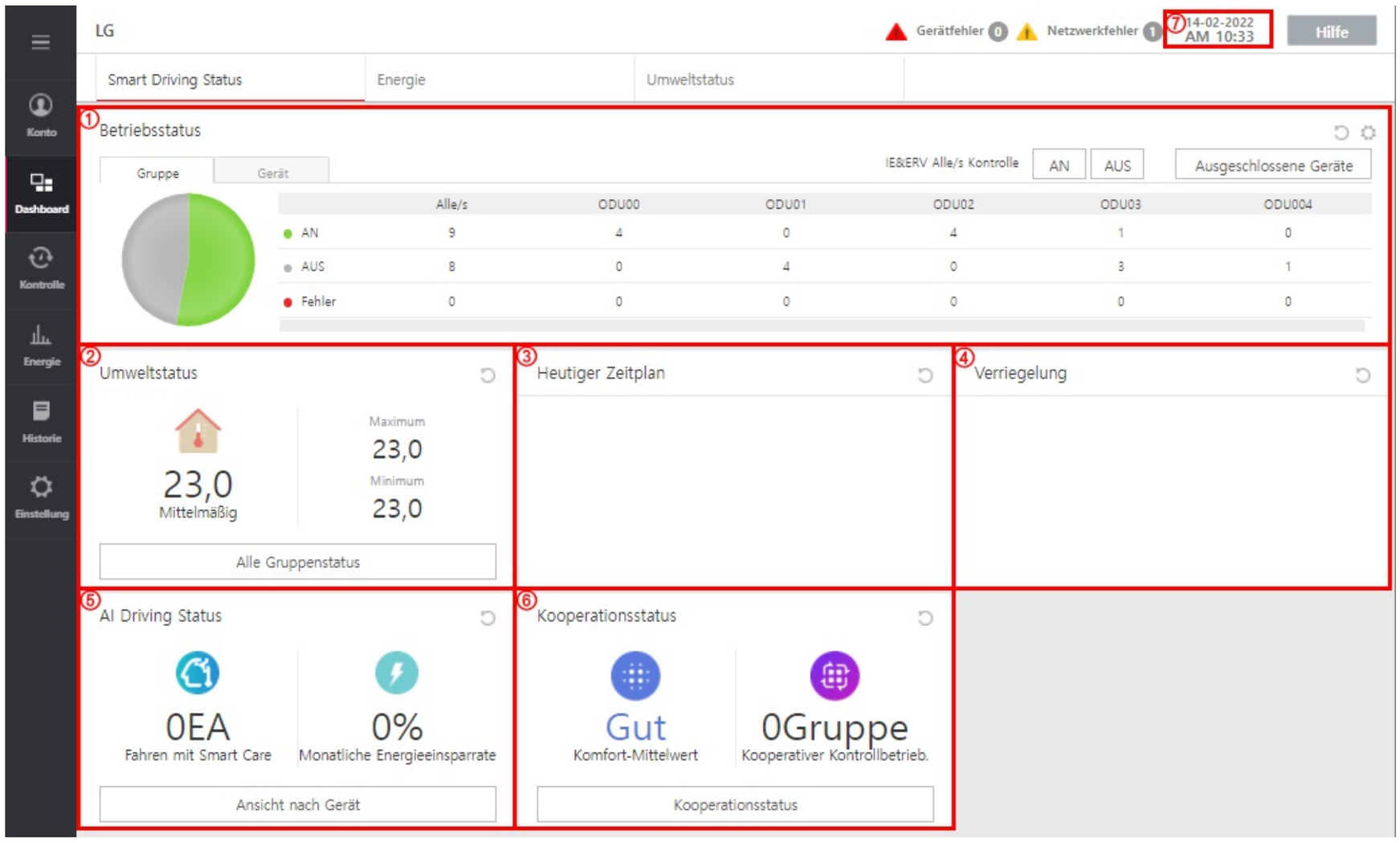


Benutzerhandbuch

Sie können den aktuellen Betriebsstatus und den Energieverbrauch der im Produkt installierten Geräte überprüfen.

Betriebsstatus

Der aktuelle Betriebsstatustastenkomposition und die Funktionen des Dashboards werden beschrieben.



Nr.	Kategorie	Inhalte
①	Betriebsstatus	Überprüfen Sie den Betriebsstatus (AN/AUS/Fehler) der im Produkt installierten Geräte [Gruppe] • Prüfen des Betriebsstatus jeder vom Benutzer entworfenen Verwaltungsgruppe [Gerät] • Überprüfen Sie den Betriebsstatus jedes vom Benutzer festgelegten Geräts Gesamte EIN-/AUS-Steuerung von Innenraumgeräteeinheiten und ERV • Gesamte EIN-/AUS-Steuerung von Innenraumgeräteeinheiten und ERV • Sollte ein Ausnahmegerät registriert sein, wird es von der Gesamtsteuerung ausgeschlossen
②	Umweltstatus	Prüfen der Durchschnittsinnentemperatur, Max./Min. Innentemperatur und Gruppe
③	Heutiger Zeitplan	Prüfen der heutigen Zeitplanliste
④	Verriegelung	Prüfen der Verriegelungsliste
⑤	AI Driving Status	Überprüfen Sie die Anzahl der Geräte, die mit Smart Care laufen, und die monatliche Energieeinsparrate. • Klicken Sie auf Ansicht nach Gerät, um die Anzahl der Außengeräte mit AI Smart Care, den Energieverbrauch sowie Energieeinsparung und Monatliche Energieeinsparrate jedes Geräts anzuzeigen.
⑥	Kooperationsstatus	Verwendung des kooperativen Kontroll-Widgets • Komfort-Mittelwert • Kooperativer Kontrollbetrieb • Kooperationsstatus
⑦	Zeit-/Datumsanzeige	Uhrzeit und Datum des Geräts anzeigen

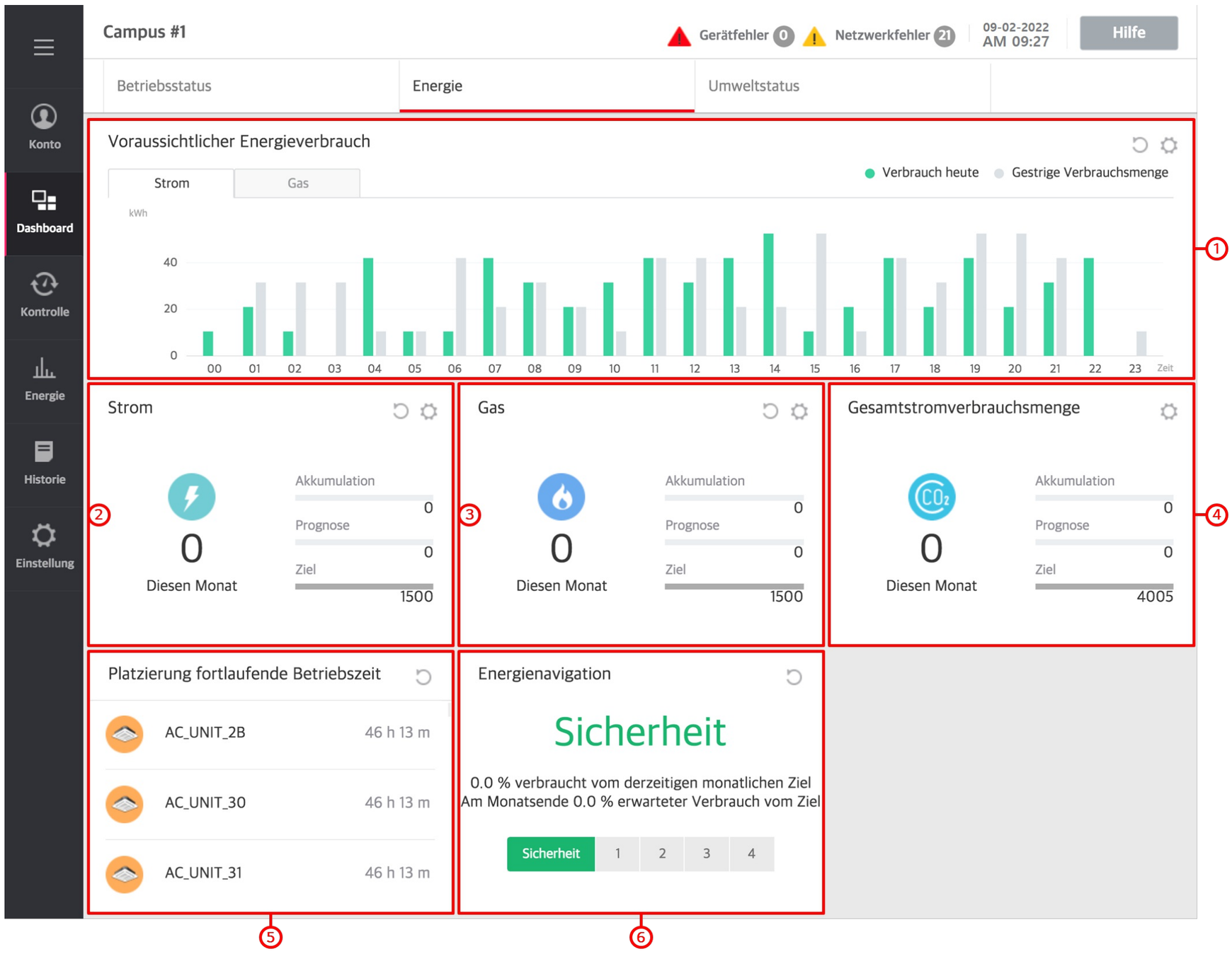
[Widget-Einstellung]

Sie können die Überwachungseinstellung durch jedes Widget des Dashboards auswählen.

➔ Betriebsstatus-Widget

Energie

Die Energietastenkomposition und Funktion des Dashboards wird beschrieben.



Nr.	Kategorie	Inhalte
①	Voraussichtlicher Energieverbrauch	Prüfen des Tages-, Monats- und Jahrestrends der Strom-/Gasverbrauchsmenge Die monatlichen/jährlichen Energieverbrauchstrends umfassen Daten bis zum Vortag.
②	Strom	Prüfen der Stromverbrauchsmengenakkumulierung, Vorhersage und des Ziels
③	Gas	Prüfen der Gasverbrauchsmengenakkumulierung, Vorhersage und des Ziels
④	Gesamtstromverbrauchsmenge	Prüfen der Gesamtenergieverbrauchsmengenakkumulierung, Vorhersage und des Ziels
⑤	Platzierung fortlaufende Betriebszeit	Überprüfen Sie die Zeiteinstufung für den Dauerbetrieb der Innenraumgeräteeinheit
⑥	Energienavigation	Überprüfen Sie den Status der Energienavigation

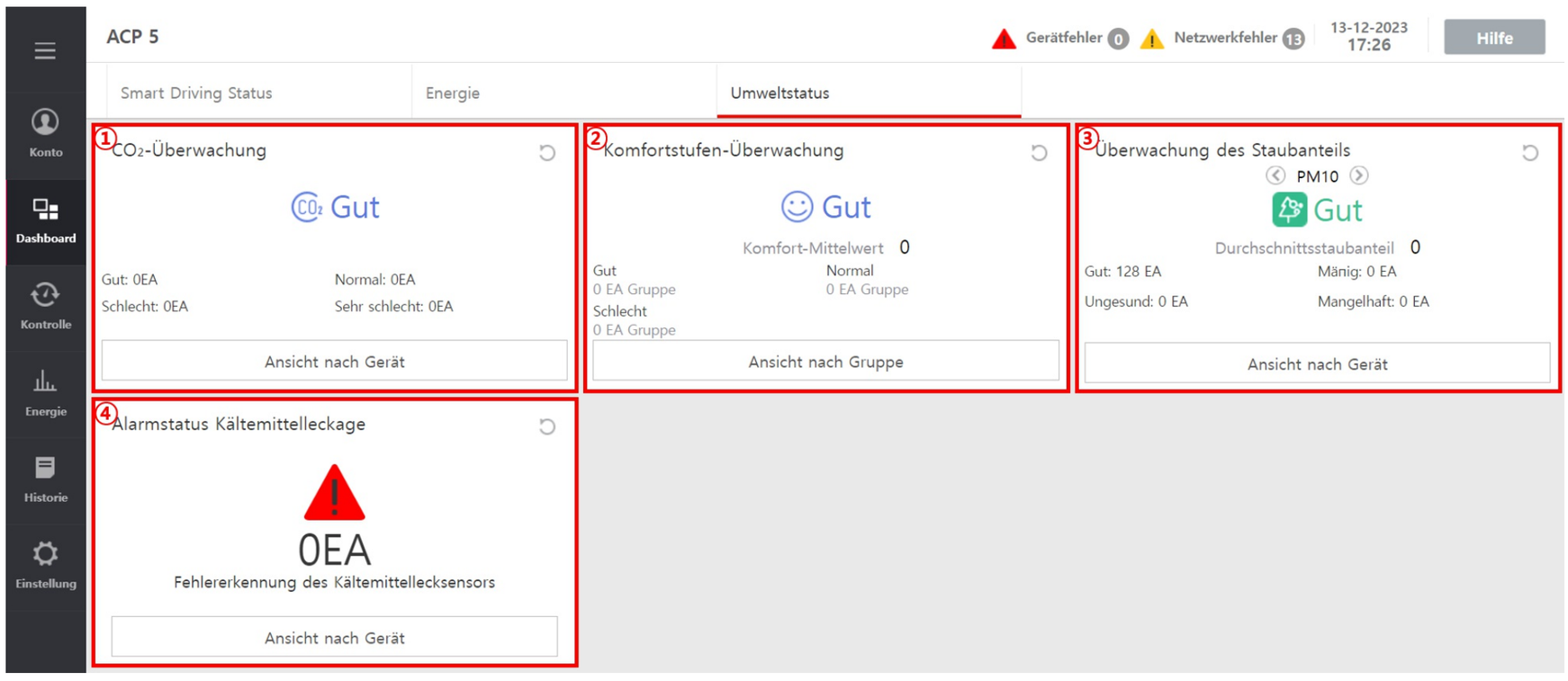
[Widget-Einstellung]

Sie können die Überwachungseinstellung durch jedes Widget des Dashboards auswählen.

- Voraussichtlicher Energieverbrauch-Widget
- Strom-Widget
- Gas-Widget
- Gesamtstromverbrauchsmenge-Widget

Umweltstatus

Es beschreibt die Zusammensetzung und die Funktionen des Tabulators für den Dashboard-Umgebungsstatus



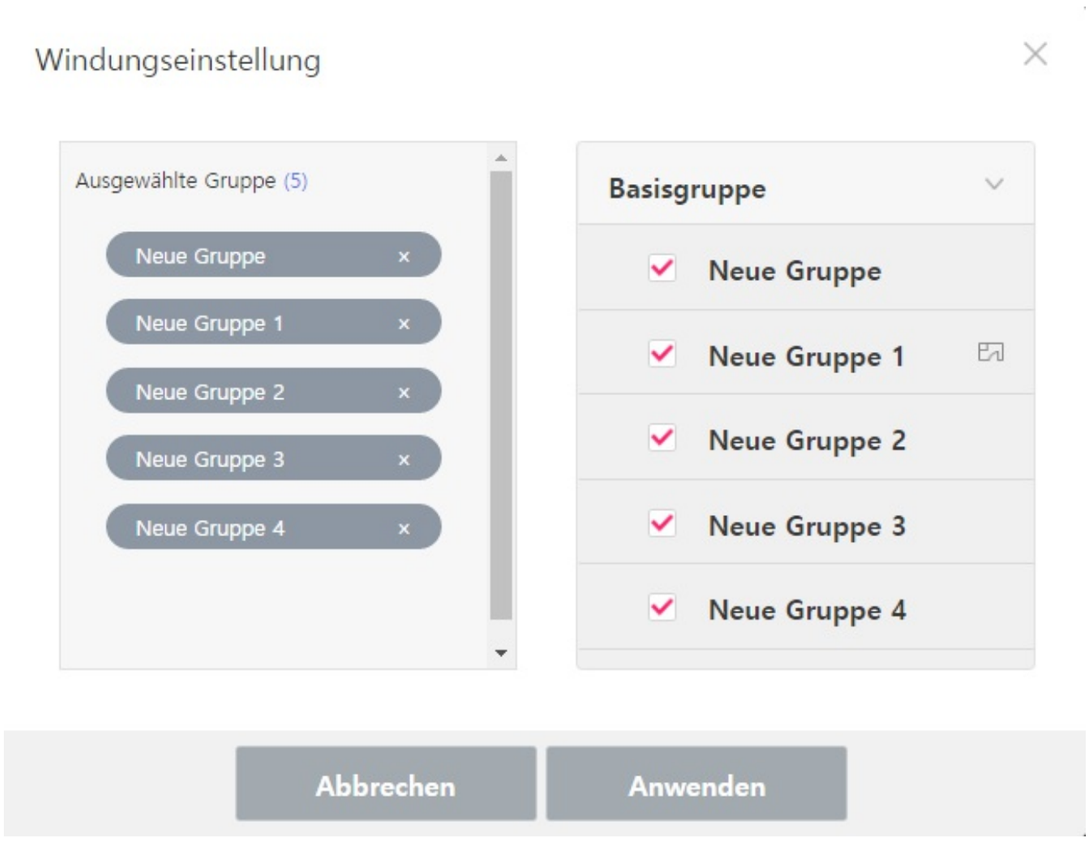
Nr.	Kategorie	Inhalte
①	CO_2-Überwachung	Überprüfen Sie den CO_2-Status der registrierten ERV
②	Komfortstufen-Überwachung	Überprüfen Sie den Annehmlichkeitszustand der registrierten Innenraumgeräteeinheiten
③	Feinstaub-Überwachung	Überprüfen Sie den Feinstaubzustand der registrierten Innenraumgeräteeinheiten, Luftreiniger Feinstaub wird in PM10, PM2,5 und PM1,0 klassifiziert und dies zeigt jeden Status und jede Konzentration an

④	Alarmstatus Kältemittelleckage	Überprüfen Sie den Alarmstatus Kältemittelleckage der registrierten Innenraumgeräteeinheiten

Betriebsstatus-Widget

Sie können die Gruppe einstellen, um den Betriebsstatus zu überwachen.

1. In der linken Menütaste klicken Sie das **[Dashboard]** > **[Betriebsstatus]** Menü an.
   - Der aktuelle Betriebsstatusbildschirm wird angezeigt.
2. Klicken Sie die aktueller Betriebsstatusbildschirm- ☼ Taste.
   - Der Widget-Einstellungsbildschirm wird angezeigt.



3. Wählen Sie die Gruppe aus, um den Betriebsstatus zu überwachen.
4. Wird die Auswahl abgeschlossen, klicken Sie die **[Anwenden]** Taste.

Voraussichtlicher Energieverbrauch-Widget

Sie können den Standard für die Energieverbrauchsmengentrendüberwachungssammlung.

1. In der linken Menütaste klicken Sie das **[Dashboard] > [Energie]** Menü an.
   - Der Energiebildschirm wird angezeigt.
2. Klicken Sie auf die Energieverbrauchstrendbildschirme ⚙ Taste.
   - Der Widget-Einstellungsbildschirm wird angezeigt.

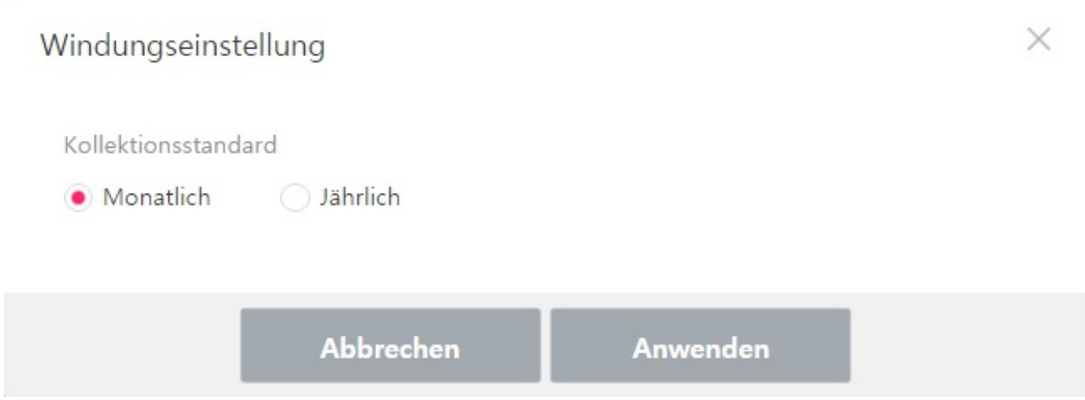


3. Wählen Sie den Sammlungsstandard aus (**Täglich/Monatlich/Jährlich**).
4. Wird die Auswahl abgeschlossen, klicken Sie die **[Anwenden]** Taste.

Strom-Widget

Sie können den Standard für den Stromverbrauchsmengensammlungsstandard auswählen.

1. In der linken Menütaste klicken Sie das **[Dashboard]** > **[Energie]** Menü an.
   - Der Energiebildschirm wird angezeigt.
2. Klicken Sie auf die Stromverbrauchsmengenbildschirme ⚙ Taste.
   - Der Widget-Einstellungsbildschirm wird angezeigt.



3. Wählen Sie den Sammlungsstandard aus (**Monatlich/Jährlich**).
4. Wird die Auswahl abgeschlossen, klicken Sie die **[Anwenden]** Taste.

Gas-Widget

Sie können den Standard für die Gasverbrauchsmengensammlung auswählen.

1. In der linken Menütaste klicken Sie das **[Dashboard]** > **[Energie]** Menü an.
   - Der Energiebildschirm wird angezeigt.
2. Klicken Sie auf die Gasverbrauchsmengenbildschirme ☼ Taste.
   - Der Widget-Einstellungsbildschirm wird angezeigt.

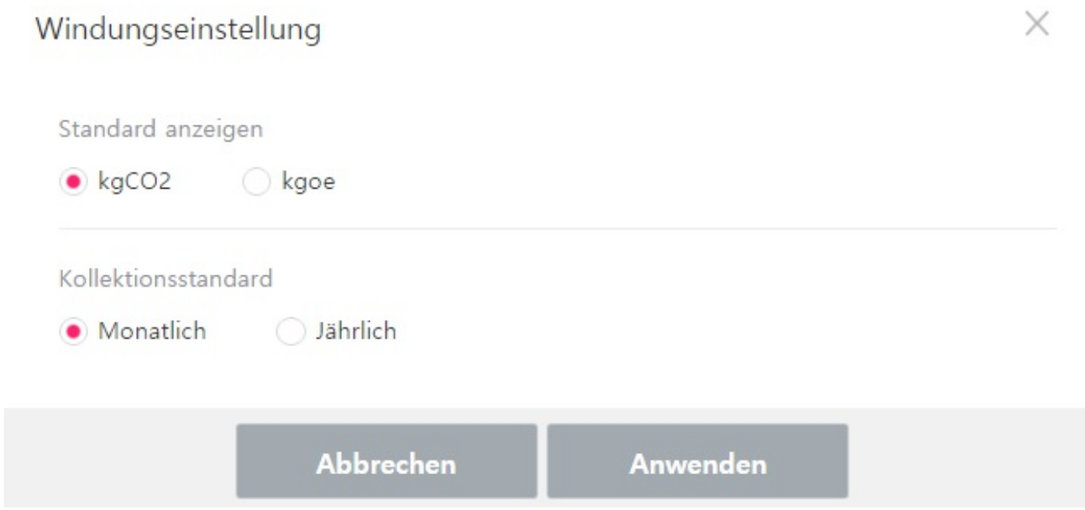


3. Wählen Sie den Sammlungsstandard aus (**Monatlich/Jährlich**).
4. Wird die Auswahl abgeschlossen, klicken Sie die **[Anwenden]** Taste.

Gesamtstromverbrauchsmenge-Widget

Sie können die Anzeige und den Sammlungsstandard für die Gesamtenergieverbrauchsmenge auswählen.

1. In der linken Menütaste klicken Sie das **[Dashboard]** > **[Energie]** Menü an.
   - Der Energiebildschirm wird angezeigt.
2. Klicken Sie auf die Gesamtenergieverbrauchsmengenbildschirme ⚙ Taste.
   - Der Widget-Einstellungsbildschirm wird angezeigt.



3. Wählen Sie den Anzeigenstandard (**kgCO₂/kgoe**) und den Sammlungsstandard (**Monatlich/Jährlich**) aus.
4. Wird die Auswahl abgeschlossen, klicken Sie die **[Anwenden]** Taste.

Innenraum-Feinstaub-Überwachung

Sie können den Feinstaub-Status bei den Inneneinheiten und Luftreinigern einsehen, die am Produkt angeschlossen sind.

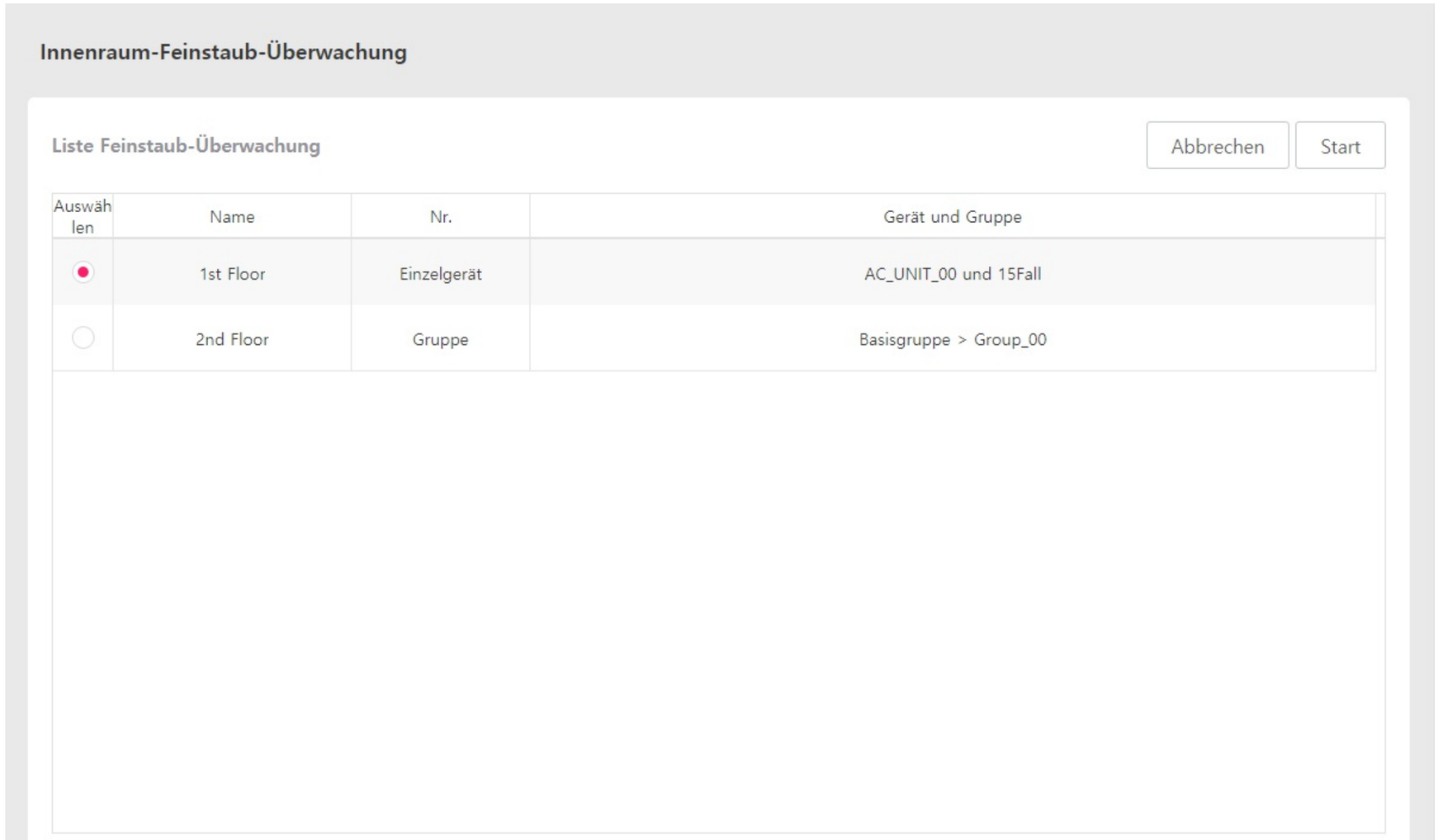
An Innenraum-Feinstaub-Überwachung anschließen.

Der Bildschirm zur Innenraum-Feinstaub-Überwachung wird wie folgt angeschlossen.

1. Geben Sie die IP-Adresse des Produkts in das Internet-Adressfenster ein.
2. Im Anmeldefenster geben Sie die ID und das Passwort ein, klicken Sie dann auf die Schaltfläche **[Innenraum-Feinstaub-Überwachung]**.

Liste der Innenraum-Feinstaub-Überwachung

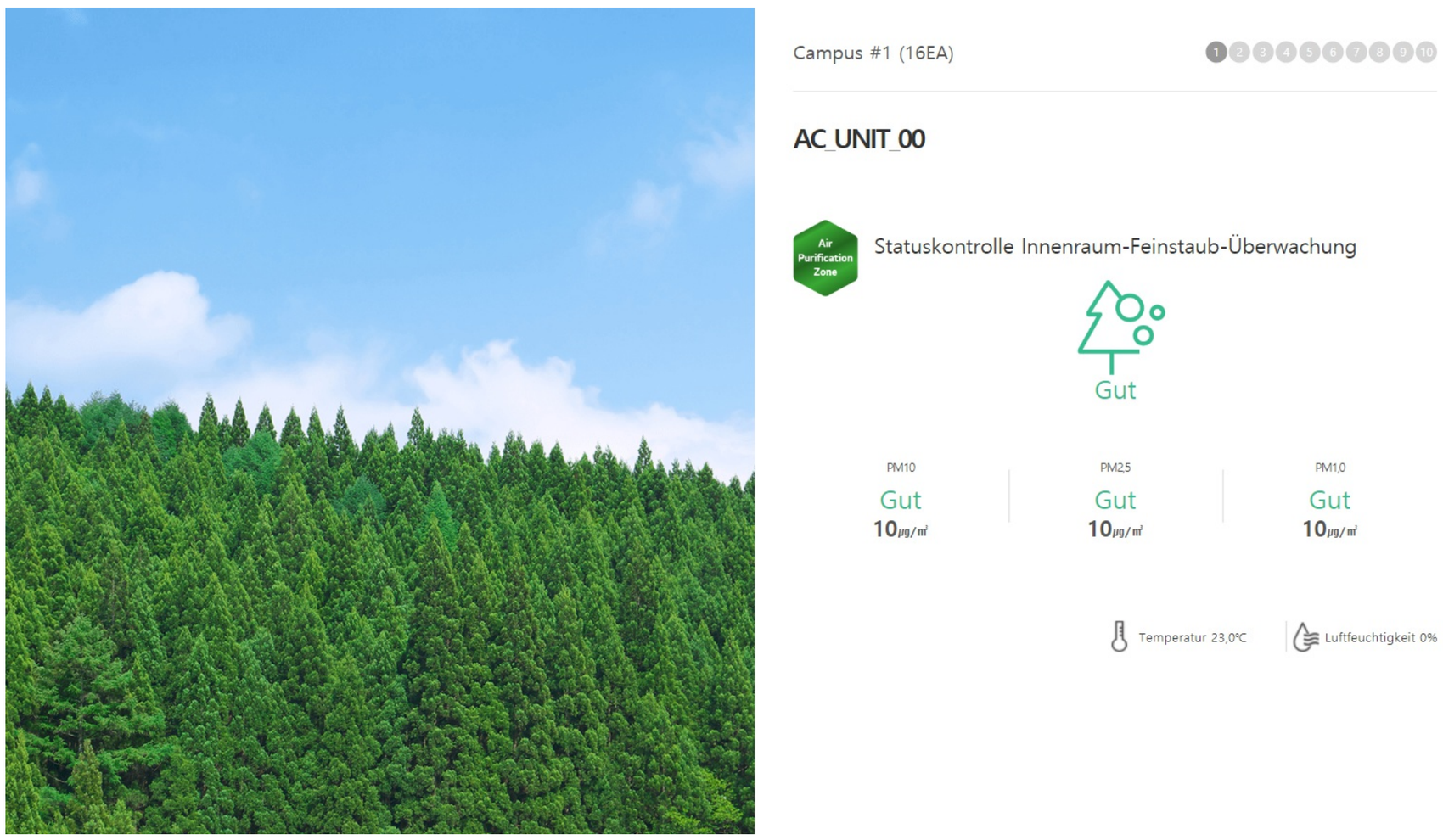
Sie können die aktuelle Liste der Innenraum-Feinstaub-Überwachungen einsehen und die Überwachung starten.



Element	Beschreibung
Auswahl	Ein Element für Innenraum-Feinstaub-Überwachung auswählen, um die Überwachung zu aktivieren.
Start	Starten Sie die ausgewählte Aufgabe der Innenraum-Feinstaub-Überwachung.
Abbrechen	Zurückgehen zur Seite für die Anmeldung.

Überwachung einzelner Geräte

Nachfolgend werden die Optionen und Funktionen bei der Überwachung einzelner Geräte beschrieben.





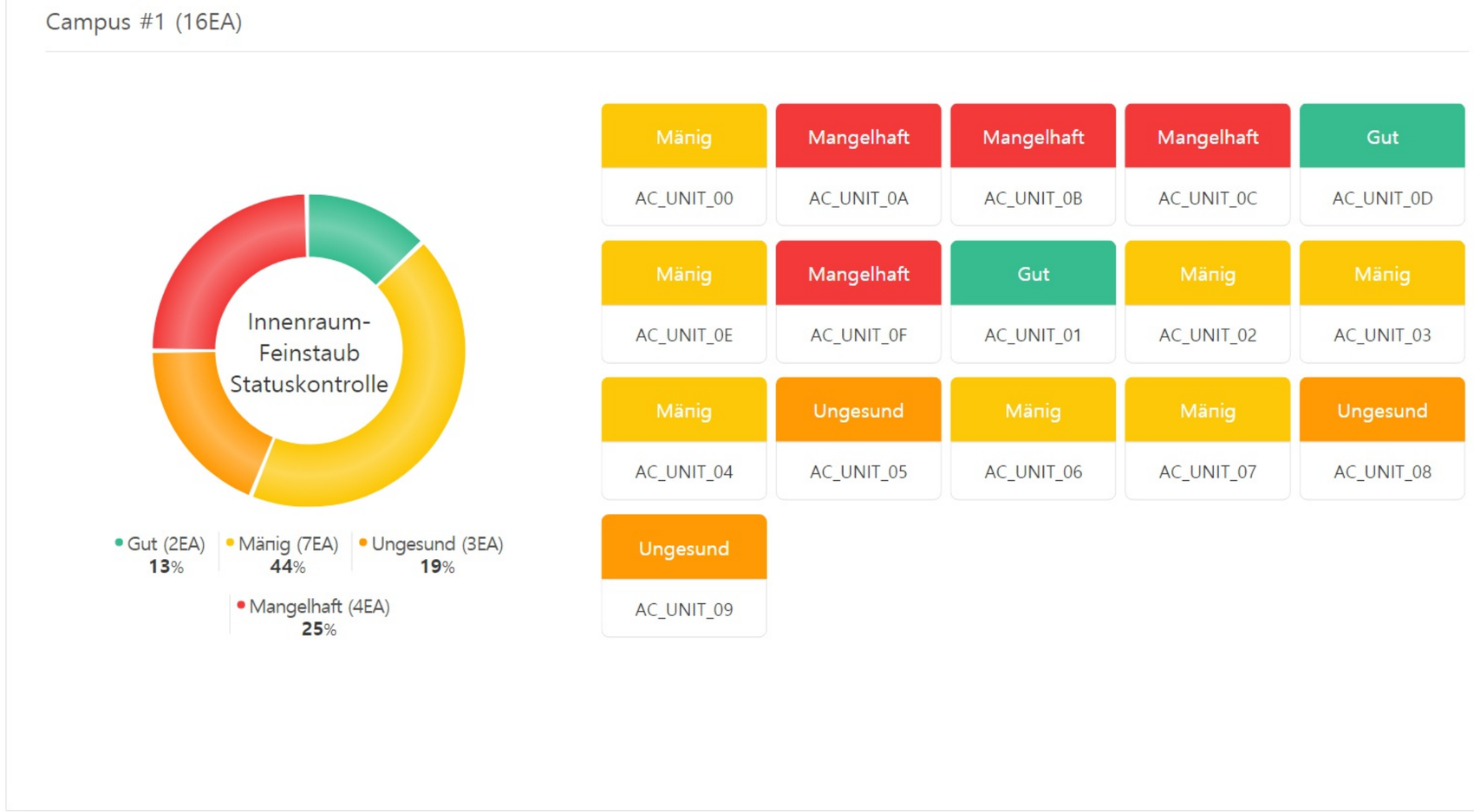


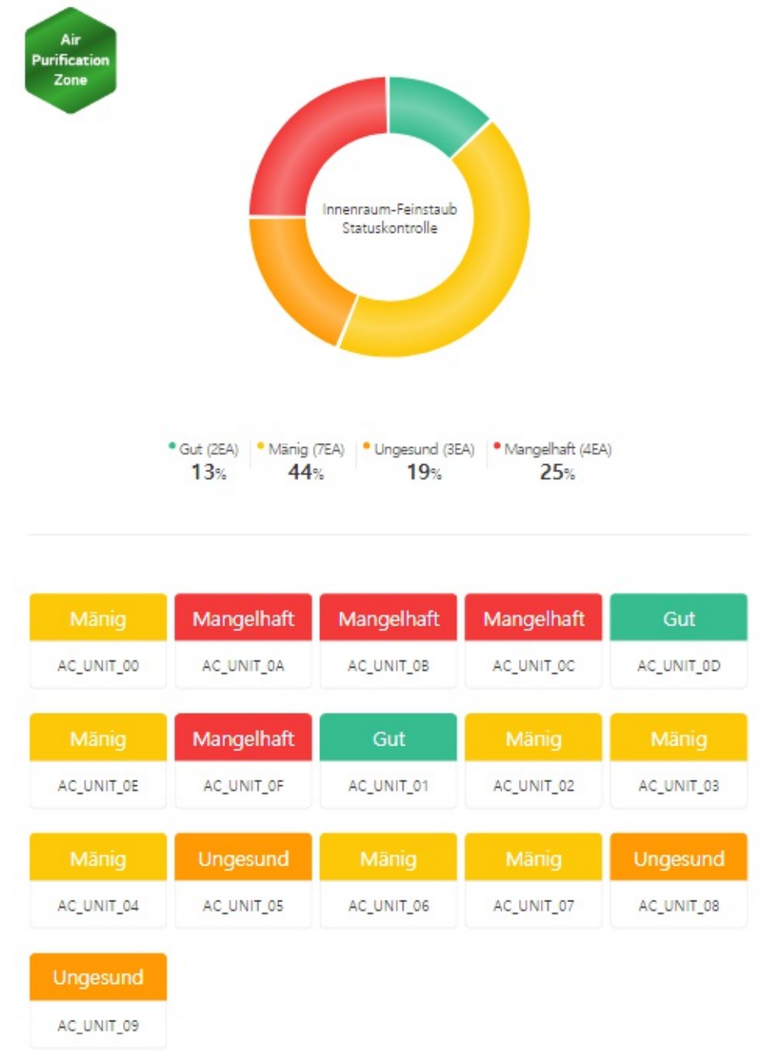


Element	Beschreibung
Verwaltungsstatus von Innenraum-Feinstaub-Überwachung	Feinstaub-Status bei registrierten Inneneinheiten und Luftreiniger checken. Anzeige der Gesamt-Sauberkeit und Anzeige des Geruchs- und Dichte-Status bei Feinstaub [pm10], Feinstaubpartikel [pm2.5] und Ultra-Feinstaubpartikel [pm1.0]. • Geruchsdaten werden nur bei Luftreinigern angezeigt, und es werden nur Statusinformationen angezeigt.
Temperatur / Luftfeuchtigkeit	Anzeige der aktuellen Temperatur und Luftfeuchtigkeit. • Nur Inneneinheiten
Verwaltungszone Feinstaub-Überwachung	Anzeige der Feinstaub-Kontrollbereiche, die LG Whisen bewirkt. • Zur Durchführung von Einstellungen auf **[Einstellungen] > [Feinstaubüberwachung festlegen]** klicken.
Bild	Um anzuzeigende Bilder festzulegen, zu **[Einstellungen] > [Feinstaub-Überwachung festlegen]** gehen. • Es können bis zu 10 Bilder festgelegt werden.

Gruppen-Überwachung

Nachfolgend werden die Optionen und Funktionen von Gruppen-Überwachung beschrieben.





Element	Beschreibung
Statistik der Statuskontrolle Innenraum-Feinstaub-Überwachung	Zeigt in einer Donut-Grafik statistische Daten der Gesamtsauberkeit der Gruppe an sowie Daten je nach Positionen.
Gesamt-Sauberkeit nach Gerät	Anzeige der Gesamt-Sauberkeit für jedes einzelne Gerät in der Gruppe.
Verwaltungszone Feinstaub-Überwachung	Anzeige der Feinstaub-Kontrollbereiche, die LG Whisen bewirkt. • Zur Durchführung von Einstellungen auf **[Einstellungen] > [Feinstaubüberwachung festlegen]** klicken.

Innenraum-Feinstaub-Überwachung abbrechen.

Nachfolgend wird beschrieben, wie die Innenraum-Feinstaub-Überwachung abgebrochen wird.

1. Den Mauszeige im oberen Bereich des Bildschirms positionieren.
   - Die Schaltfläche (⊗) wird im oberen Bereich des Bildschirms angezeigt.
2. Auf die Schaltfläche ⊗ klicken.
   - Sie gelangen zur Liste der Innenraum-Feinstaub-Überwachungen.

Gerätesteuerung

Die Methode der Gerätsteuerung und Überwachung des Gerätstatus wird angezeigt.

[Bildschirm und Symbol]

- Bildschirmstruktur und Funktion
- Gerätesymbol

[Steuerungsfenster]

- Steuerung jedes Geräts
- Geräteinformationen

[Kontrolle/Überwachung]

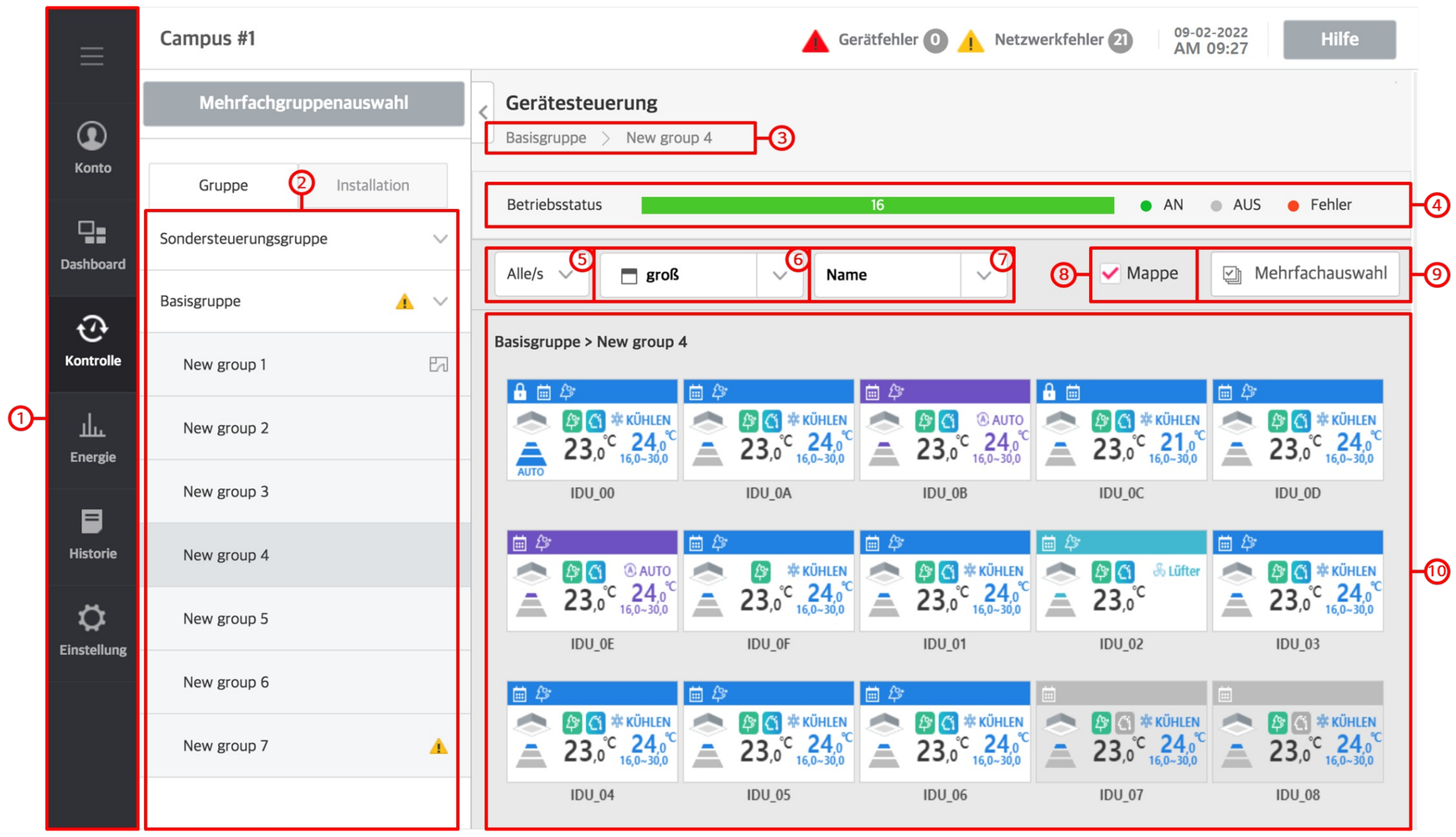
- Kontrolle
- Überwachung

[Zeichnung]

- Zeichnung bearbeiten
- Zeichnung löschen

Bildschirmstruktur und Funktion

1. In der linken Menütaste klicken Sie das **[Steuerung] > [Gerätesteuerung]** Menü an.
   - Der Gerätesteuerungsbildschirm wird angezeigt.



Nr.	Kategorie	Inhalte
①	Hauptmenü	Hauptmenütaste
②	Gruppenliste	Steuerungsgruppe prüfen
③	Gruppeninformation	Gruppenname und Gruppenstandort
④	Betriebsstatus	Prüfen Sie den aktuellen Betriebsstatus des Geräts (AN/AUS/Fehler)
⑤	Filtern	Filtern der Gerätkategorie und des Gerätstatus
⑥	Ansichtsmethode	Wählen Sie die Ansichtsmethode der Gerättaste aus : groß : klein : Liste : Zeichnung
⑦	Sortiereinrichtung	Wählen Sie die Sortiermethode des Geräts • Name • Gerät/Name • Gerät/Adr. • Betrieb
⑧	Ordner ansehen	Prüfen Sie die Gruppenkategorie der unteren Ebene der aktuellen Gruppe, wenn Sie geprüft wird
⑨	Mehrfachauswahl	Beim Klicken mehrere Geräte auswählen
⑩	Gerätabschnitt	Prüfen Sie die Information der Geräteinstellung in der Gruppe

Management-/Installationsgruppe

1. Gruppe

- Managementgruppe, welche für die Bequemlichkeit eingestellt wurde

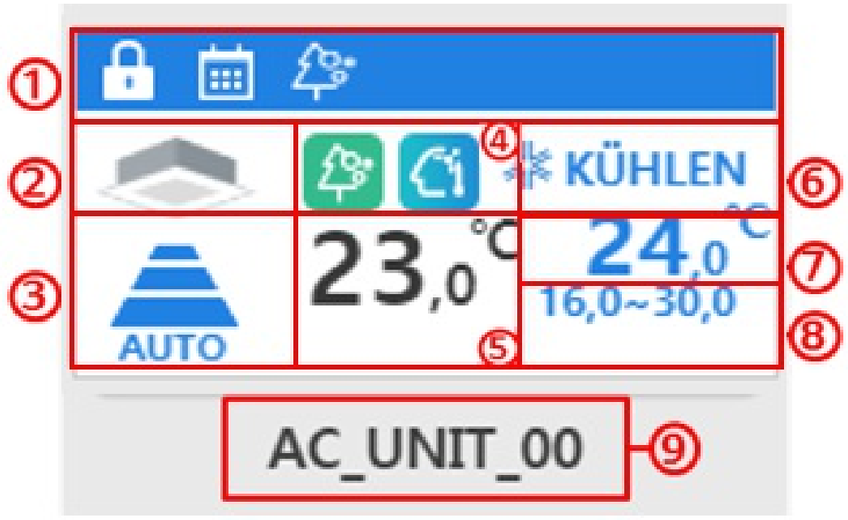
2. Installation

- Liefert die Information des aktuell angeschlossenen Geräts

Gerätesymbol

Sie können mit dem Symbol die wichtigen Informationen einzelner Geräte prüfen.

1. Großes Symbol



Nr.	Kategorie	Inhalte
①	Den Gerätestatus anzeigendes Symbol	Symbol für Gerätestatusanzeige überprüfen
②	Gerätesymbol	Gerätesymbol prüfen
③	Lüftergeschwindigkeit	Lüftergeschwindigkeit des Geräts prüfen
④	Feinstaub-Status und Smart Care Status	Feinstaub-Status und Smart Care Betriebsstatus prüfen. Blau (gut), Grün (normal), Orange (schlecht), Rot (sehr schlecht)
⑤	Aktuelle Temperatur	Aktuelle Temperatur prüfen
⑥	Modus	Modus prüfen
⑦	Einstellen temperatur	Eingestellte Temperatur prüfen
⑧	Eingestellter Temperaturbereich	Obergrenzen-뭉Untergrenzentemperatur prüfen
⑨	Gerätename	Gerätename prüfen

Den Gerätestatus anzeigendes Symbol

Symbol	Inhalte
	Sperre
	Zeitplan
	Belegt
	Spitzenkontrolle
	Filterwechselalarm / Vorfilter-Wechselalarm / Feinstaubfilter-Wechselalarm
	Ölwechselalarm
	Luftreinigung
	Luftqualität-Sensor
	Ineinandergreifende Energieeinsparungssteuerung bei Multi-V
	UVnano
	UVNano LED Inspektion erforderlich
	Kooperativer Kontrollbetrieb
	Gruppensteuerung (Sklave)

2. Kleines Symbol

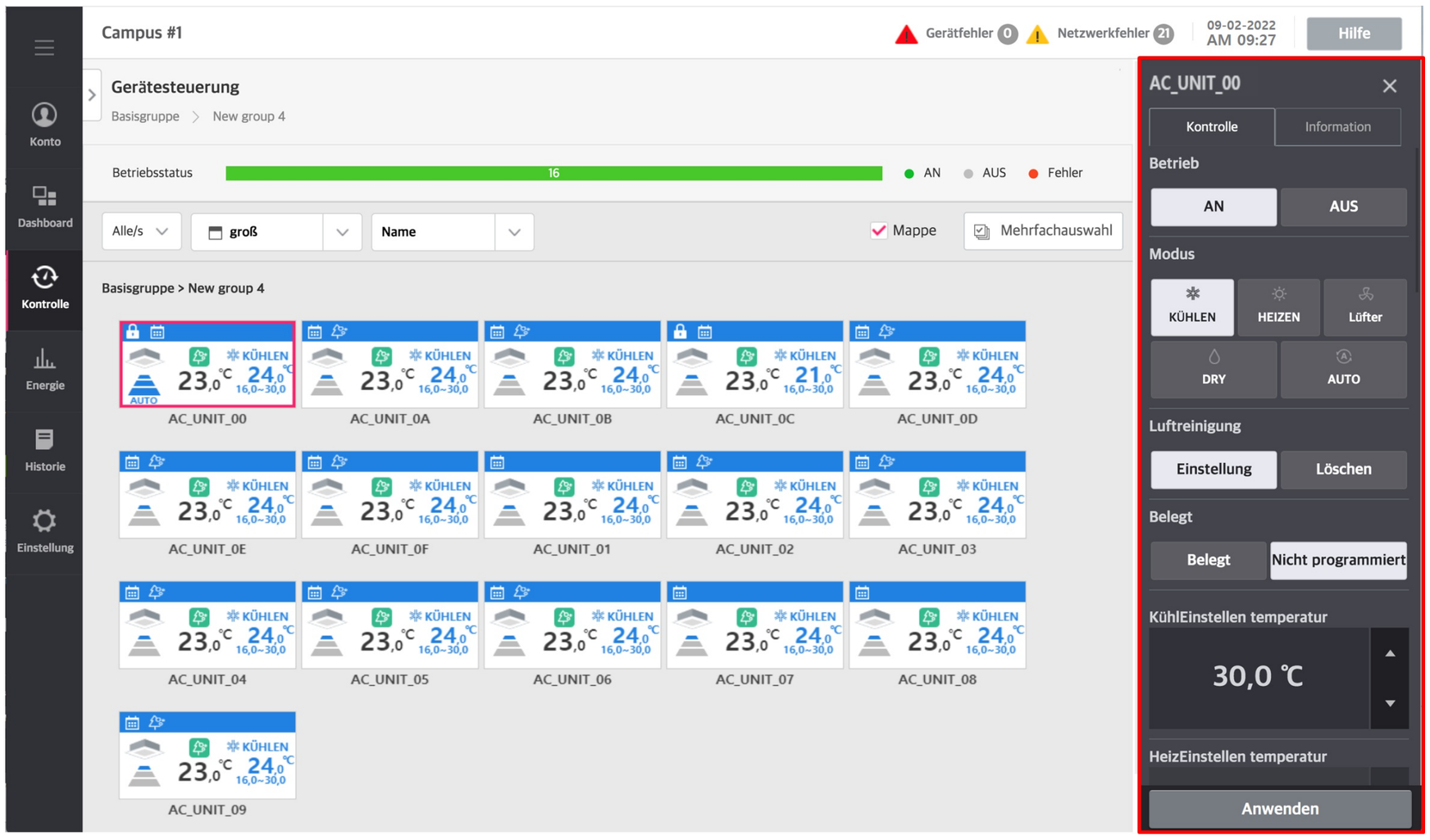
- Gerätesymbol/Betriebsstatus/Modus/Gerätename prüfen

3. Liste ansehen

- Anzeige der Geräteeigenschaft innerhalb der Gruppe (Gerätename, Betriebsstatus, Betriebsmodus, aktuelle Temperatur, Zieltemperatur, Fehlercode, ACP-Adresse, Außengeräteadresse, Geräteadresse, etc.)

Benutzerhandbuch

Wird ein Gerät im Gerätabschnitt ausgewählt, entsteht ein Steuerungsfenster auf der rechten Seite, wie auf dem folgenden Bildschirm. Sie können das ausgewählte Gerät durch das Steuerungsfenster steuern.



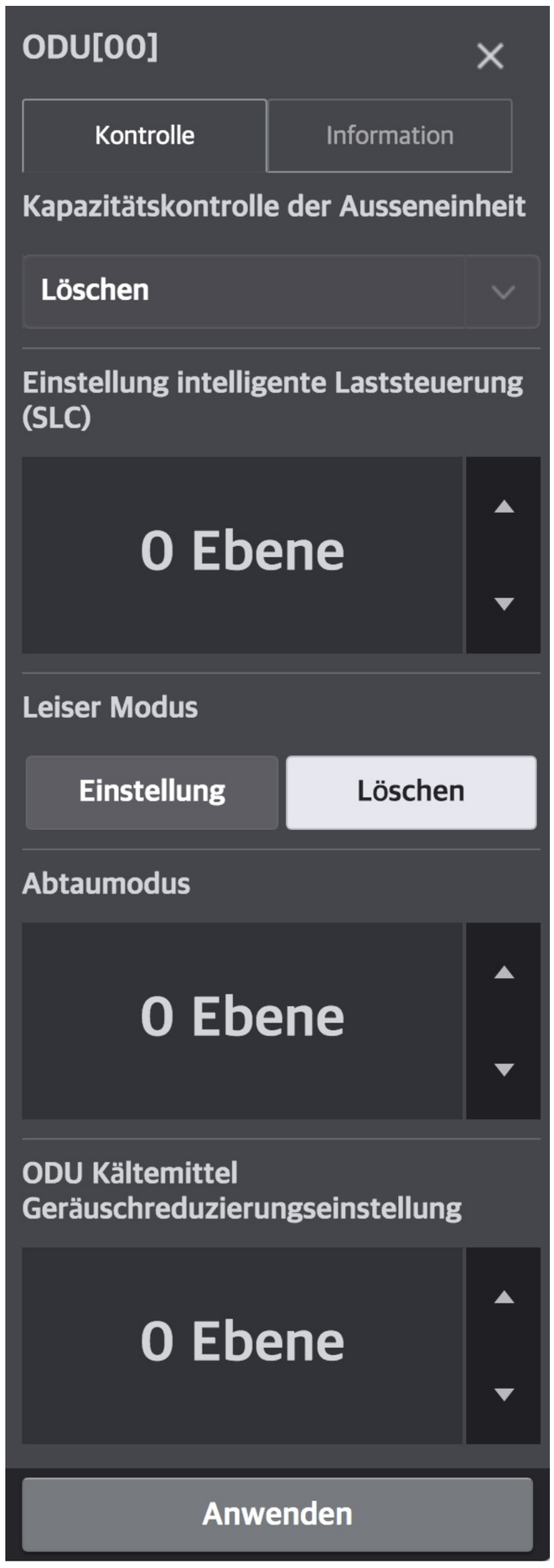
Hinweis

- Die detaillierte Gerätesteuerungsgrenze kann für jedes Gerät unterschiedlich zum aktuellen Gerät sein, also stellen Sie sicher, dass Sie sich auf das entsprechende Gerätehandbuch beziehen.
- Die ACS E/A-Geräte können der Einstellung entsprechend unterschiedliche Steuerungstoolnamen, Geräte, Obergrenzen, Untergrenzen, usw. besitzen.

Steuerung jedes Geräts

- Außengerät
- IE
  IE (2er-Einstellung)
- ERV
- ERV DX
- Bodenmontage Entlüftung
- Heating
- AHU
- Scroll-Kühler
- Screw-Kühler
- Zentrifugalkühler
- Absorptionskühler
- Scroll- Kühler Mini
- DOKIT
- DO
- AO
- Luftreiniger

Außengerät



Kategorie	Inhalte
Kapazitätskontrolle der Ausseneinheit	• Drücken Sie aus die **[▼]**-Taste, um die Mengensteuerung-Betriebsrate festzulegen (%)
Einstellung intelligente Laststeuerung (SLC)	• Drücken Sie auf die **[▲]/[▼]**-Taste, um die Steuerungsphase der intelligenten Last (0-Ebene, 1-Ebene, 2-Ebene, 3-Ebene, 4-Ebene) einzustellen
Leiser Modus	• **[Einstellen/Löschen]**-Taste: Einstellung/Abbruch der Betriebseinstellung für die Geräuschreduzierung des Außengeräts
Abtaumodus	• Drücken Sie auf die **[▲]/[▼]**-Taste, um die Abtaumodusphase des Außengeräts (0-Ebene, 1-Ebene, 2-Ebene, 3-Ebene) einzustellen
ODU Kältemittel Geräuschreduzierungseinstellung	• Drücken Sie auf die **[▲]/[▼]**-Taste, um die Geräuschunterdrückungsphase für das Kältemittel der Innenraumgeräteeinheit (0-Ebene, 1-Ebene, 2-Ebene) einzustellen

Hinweis

Sollte in der Zentralsteuerung der geräuscharme Außengerätebetrieb verwendet werden, müssen Sie in der Fernbedienung der installierten Innenraumgeräteeinheiten die Einstellung [Installationseinstellung] > [Leiser Modus] auf „ODU“ einstellen.

IE



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um • **[Lüfter]** Taste: Luftreinigungsbetrieb. Wird Nur Wind ausgewählt, wird die eingestellte Temperatur für das Gerät nicht angewandt • **[DRY]** Taste: Entfernt die Feuchtigkeit in der Regenzeit oder wenn die Feuchtigkeit hoch ist. Wird Entfeuchtung ausgewählt, wird die eingestellte Temperatur für das Gerät nicht angewandt • **[AUTO]** Taste: Schaltet auf den Automatikmodus um
Luftreinigung	Luftreinigungssteuerung nur für die Luftreinigungsfunktion, welche die Innenraumgeräteeinheit unterstützt • Einzelbetrieb der Luftreinigung 1) Im Ruhezustand der Innenraumgeräteeinheit wird im Fall der Luftreinigung **[Einstellung]**, erfolgt der Luftreinigungseinzelbetrieb nur mit Wind (automatischem Wind) (Während der Luftreinigung werden Einzelbetrieb, Modussperre und Windmengensperre nicht überprüft) 2) Während des Luftreinigungseinzelbetriebs wird im **[AUS]**- oder Luftreinigung **[Löschen]**-Betrieb die Luftreinigung im vorherigen Modus und für die vorherige Windmenge abgebrochen (Im Falle der kombinierten Modus- oder Windmengensteuerung wird die Steuerung jedoch mittels kontrolliertem Modus und Windmenge ausgeführt) • Zusätzlicher Betrieb der Luftreinigung 1) Im Innenraumgeräteeinheits-AUSpzustand findet im Fall des Betriebsstatus **[AN]** und bei Luftreinigung **[Einstellung]** im aktuellen Modus ein zusätzlicher Luftreinigungsbetrieb statt 2) Im Innenraumgeräteeinheits-Betriebszustand findet im Fall der Luftreinigung **[Einstellung]** im aktuellen Modus ein zusätzlicher Luftreinigungsbetrieb statt 3) Während des zusätzlichen Luftreinigungsbetriebs wird im Fall des **[AUS]**-Betriebs der Betrieb angehalten

	4) Während des zusätzlichen Luftreinigungsbetriebs wird im Fall der **[Löschen]**-Luftreinigung der Betrieb abgebrochen
Einstellen temperatur	Drücken Sie die **[▲]/[▼]** Taste, um die gewünschte Temperatur einzustellen
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[MEDIUM]** Taste: Stellt die Lüftergeschwindigkeit auf normal • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[AUTO]** Taste: **[Niedrig]**-**[MEDIUM]**-**[Hoch]** automatisches Umschalten
Swing	• **[Einstellung/Löschen]** Taste: AN/AUS die automatische Drehfunktion des Lüfters
Eingestellter Temperaturbereich	Stellt der Benutzer die gewünschte Temperatur individuell ein, ist es möglich, die gewünschte Temperatur außerhalb der vorgesehenen Temperaturgrenzen einzustellen
Personenerkennungsmodus - Gelernter Stromsparmodus Ein/Aus	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers EIN-/-AUS-Energiespareinstellung/-abbruch
Personenerkennungsmodus - Temperatur-Stromsparmodus	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Temperatur-Energiespareinstellung/-abbruch
Personenerkennungsmodus - Leerlaufzeit-Einstellung (Minute)	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers Stellen Sie die Leer-Entscheidungszeit auf 5, 10, 15, 30, 60 oder 90 Minuten ein.
Personenerkennungsmodus - Direkter Wind	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Einstellung/Abbruch des direkten Windes
Personenerkennungsmodus - Indirekter Wind	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Einstellung/Abbruch des indirekten Windes
Energiesparmodus Angenehm	• **[Einstellen/Löschen]**-Taste: angenehme Einstellung der Energiesparfunktion einstellen/abbrechen • Sie können die Taste **[▲]/[▼]** drücken, um die Phase einzustellen Nur wenn sich die Innenraumgeräteeinheit im Kühlbetrieb befindet, ist eine angenehme Energiesparsteuerung möglich
Vorfilter-Wechselalarm	• **[Löschen]**-Taste: Im Falle eines Vorfilter-Wechselalarms wird der Vorfilter-Wechselalarm aufgehoben
Feinstaubfilter-Wechselalarm	• **[Löschen]**-Taste: Im Falle eines Feinstaubfilter-Wechselalarms wird der Feinstaubfilter-Wechselalarm aufgehoben
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann
Sperrmodus	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen sperren, so dass der Benutzer keine Moduseinstellung mit der individuellen Fernsteuerung steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Lüftergeschwindigkeitneinstellung mit der individuellen Fernsteuerung nicht steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Temperatureinstellung mit der individuellen Fernsteuerung nicht steuern kann
AutoWechsel(Besetzt)	Es handelt sich um eine Funktion, um automatisch auf Kühlbetrieb umzuschalten, sollte die Innentemperatur die obere Grenztemperatur übersteigen, oder auf Heizbetrieb, sollte sie unter der unteren Grenztemperatur liegen, und auf „Nur Wind“-Betrieb, falls sie zwischen der oberen Grenztemperatur und der unteren Grenztemperatur liegen sollte (wird nur vom Außengerät mit Kühlung/Heizung unterstützt) • **[Einstellung/Löschen]** Taste: Einstellung/Löschen die automatische Umschaltung
Untergrenzen-/Obergrenzentemperatur	Einstellung der automatischen Umschaltung der Untergrenzentemperatur und der Obergrenzentemperatur
AutoWechsel(Besetzt) der Lüftergeschwindigkeit	Wählen Sie den Lüftergeschwindigkeitnwert aus, um den automatischen Umschaltbetrieb der Innengerät einzustellen • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[MEDIUM]** Taste: Stellt die Lüftergeschwindigkeit auf normal • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[AUTO]** Taste: **[Niedrig]**-**[MEDIUM]**-**[Hoch]** automatisches Umschalten
Rückschlag(Nicht besetzt)	Die Funktion zur Erhaltung der Raumtemperatur, wo das Gerät installiert wird, innerhalb einer bestimmten Grenze (Nur durch die Kühlung/Heizung des gleichzeitigen Außengerätetypen unterstützt) • **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Rückschlag(Nicht besetzt)
Kühlstart	Drücken Sie die **[▲]/[▼]** Taste, um die Kühlbetriebsstarttemperatur einzustellen (21˚C~40˚C)
Heizstart	Drücken Sie die **[▲]/[▼]** Taste, um die Heizungsbetriebsstarttemperatur einzustellen (1˚C~20˚C)
Kombi-Heizungsregelung	(Wird nur bei bestimmten Innen- und Außeneinheiten unterstützt) Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Steuerung gemäß Außentemperatur
Modus	Dies wird nur aktiviert, wenn die Kombi-Heizungsregelung eingestellt ist. • Schaltfläche **[AUTO]** : Stellt den Steuerungsmodus auf Automatikbetrieb • Schaltfläche **[Manual]** : Stellt den Steuerungsmodus auf Manuell Sie können die Steuerung von Wärmepumpe und Heizung aktivieren/deaktivieren. Sie können nicht die Steuerungen sowohl von Wärmepumpe als auch Heizung deaktivieren.
Temp. 1	Diese kann ausschließlich im Automatikmodus aktiviert werden. Sie können Temp. 1 als Außentemperatur einstellen. Je nach den eingestellten Temperaturwerten arbeiten Wärmepumpe und Heizung automatisch. Drücken Sie **[▲]/[▼]** zum Einstellen von Temp. 1 (-23˚C-16˚C).
Temp. 2	Diese kann ausschließlich im Automatikmodus aktiviert werden. Sie können Temp. 2 als Außentemperatur einstellen. Je nach den eingestellten Temperaturwerten arbeiten Wärmepumpe und Heizung automatisch. Drücken Sie **[▲]/[▼]** zum Einstellen von Temp. 2 (-23˚C-51˚C).
Wärmepumpe	Diese kann ausschließlich im manuellen Modus aktiviert werden. Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Wärmepumpensteuerung.
Heizung	Diese kann ausschließlich im manuellen Modus aktiviert werden. Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Heizungssteuerung.
Smart Care	Nur aktiviert, wenn ein KI-Controller angeschlossen ist Schaltfläche **[Festlegen/Aufheben]**: Smart Care aktivieren/deaktivieren
Kooperative Steuerung	Nur aktiviert, wenn ein KI-Controller angeschlossen ist Schaltfläche **[Festlegen/Aufheben]**: Kooperative Steuerung aktivieren/deaktivieren
UVnano	Pouze pro režim UVnano - podpora vnitřní jednotky, režim UVnano - ovládání Schaltfläche **[Festlegen/Aufheben]**: UVnano . aktivieren/deaktivieren

IE (2er-Einstellung)

Falls die 2er-Einstellungs-Funktion, welche die Außengerät/Innenraumgeräteeinheit/Fernbedienung unterstützt verwendet wird und in **[Einstellung]** > **[Installieren]** , und der IE 2Set als **IE** ausgewählt wird, dann wird das Innenraumgeräteeinheit-2er-Einstellungs-Steuerungsfenster auf der rechten Seite generiert, wie es im folgenden Bildschirm gezeigt wird.



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um • **[Lüfter]** Taste: Luftreinigungsbetrieb. Wird Nur Wind ausgewählt, wird die eingestellte Temperatur für das Gerät nicht angewandt • **[DRY]** Taste: Entfernt die Feuchtigkeit in der Regenzeit oder wenn die Feuchtigkeit hoch ist. Wird Entfeuchtung ausgewählt, wird die eingestellte Temperatur für das Gerät nicht angewandt • **[AUTO]** Taste: Schaltet auf den Automatikmodus um
Luftreinigung	Luftreinigungssteuerung nur für die Luftreinigungsfunktion, welche die Innenraumgeräteeinheit unterstützt • Einzelbetrieb der Luftreinigung 1) Im Ruhezustand der Innenraumgeräteeinheit wird im Fall der Luftreinigung **[Einstellung]**, erfolgt der Luftreinigungseinzelbetrieb nur mit Wind (automatischem Wind) (Während der Luftreinigung werden Einzelbetrieb, Modussperre und Windmengensperre nicht überprüft) 2) Während des Luftreinigungseinzelbetriebs wird im **[AUS]**- oder Luftreinigung **[Löschen]**-Betrieb die Luftreinigung im vorherigen Modus und für die vorherige Windmenge abgebrochen (Im Falle der kombinierten Modus- oder Windmengensteuerung wird die Steuerung jedoch mittels kontrolliertem Modus und Windmenge ausgeführt) • Zusätzlicher Betrieb der Luftreinigung 1) Im Innenraumgeräteeinheits-AUSpzustand findet im Fall des Betriebsstatus **[AN]** und bei Luftreinigung **[Einstellung]** im aktuellen Modus ein zusätzlicher Luftreinigungsbetrieb statt 2) Im Innenraumgeräteeinheits-Betriebszustand findet im Fall der Luftreinigung **[Einstellung]** im aktuellen Modus ein zusätzlicher Luftreinigungsbetrieb statt 3) Während des zusätzlichen Luftreinigungsbetriebs wird im Fall des **[AUS]**-Betriebs der Betrieb angehalten 4) Während des zusätzlichen Luftreinigungsbetriebs wird im Fall der **[Löschen]**-Luftreinigung der Betrieb abgebrochen
	Funktion, um den Raum mit der entsprechenden Innenraumgeräteeinheit als belegt oder leer festzulegen

Bewegungserkennung	• **[Belegt]**-Taste: Auslastungseinstellung • **[Nicht programmiert]**-Taste: Leereinstellung
Temperatur der Kühleinstellung	Drücken Sie die Taste **[▲]/[▼]**, um die Kühleinstelltemperatur festzulegen
Heizeinstelltemperatur	Drücken Sie die Taste **[▲]/[▼]**, um die Heizeinstelltemperatur festzulegen
Untergrenze/Obergrenze der Kühltemperatur	Einstellung der Untergrenze/Obergrenze der Kühltemperatur
Untergrenze/Obergrenze der Heiztemperatur	Einstellung der Untergrenze/Obergrenze der Heiztemperatur
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[MEDIUM]** Taste: Stellt die Lüftergeschwindigkeit auf normal • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[AUTO]** Taste: **[Niedrig]**-**[MEDIUM]**-**[Hoch]** automatisches Umschalten
Swing	• **[Einstellung/Löschen]** Taste: AN/AUS die automatische Drehfunktion des Lüfters
Personenerkennungsmodus - Gelernter Stromsparmodus Ein/Aus	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers EIN-/-AUS-Energiespareinstellung/-abbruch
Personenerkennungsmodus - Temperatur-Stromsparmodus	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Temperatur-Energiespareinstellung/-abbruch
Personenerkennungsmodus - Leerlaufzeit-Einstellung (Minute)	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers Stellen Sie die Leer-Entscheidungszeit auf 5, 10, 15, 30, 60 oder 90 Minuten ein.
Personenerkennungsmodus - Direkter Wind	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Einstellung/Abbruch des direkten Windes
Personenerkennungsmodus - Indirekter Wind	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Einstellung/Abbruch des indirekten Windes
Energiesparmodus Angenehm	• **[Einstellen/Löschen]**-Taste: angenehme Einstellung der Energiesparfunktion einstellen/abbrechen • Sie können die Taste **[▲]/[▼]** drücken, um die Phase einzustellen Nur wenn sich die Innenraumgeräteeinheit im Kühlbetrieb befindet, ist eine angenehme Energiesparsteuerung möglich
Vorfilter-Wechselalarm	• **[Löschen]**-Taste: Im Falle eines Vorfilter-Wechselalarms wird der Vorfilter-Wechselalarm aufgehoben
Feinstaubfilter-Wechselalarm	• **[Löschen]**-Taste: Im Falle eines Feinstaubfilter-Wechselalarms wird der Feinstaubfilter-Wechselalarm aufgehoben
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann
Sperrmodus	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen sperren, so dass der Benutzer keine Moduseinstellung mit der individuellen Fernsteuerung steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Lüftergeschwindigkeitneinstellung mit der individuellen Fernsteuerung nicht steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Temperatureinstellung mit der individuellen Fernsteuerung nicht steuern kann
Kombi-Heizungsregelung	(Wird nur bei bestimmten Innen- und Außeneinheiten unterstützt) Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Steuerung gemäß Außentemperatur.
Modus	Dies wird nur aktiviert, wenn die Kombi-Heizungsregelung eingestellt ist. • Schaltfläche **[AUTO]** : Stellt den Steuerungsmodus auf Automatikbetrieb. • Schaltfläche **[Manual]** : Stellt den Steuerungsmodus auf Manuell. Sie können die Steuerung von Wärmepumpe und Heizung aktivieren/deaktivieren. Sie können nicht die Steuerungen sowohl von Wärmepumpe als auch Heizung deaktivieren.
Temp. 1	Diese kann ausschließlich im Automatikmodus aktiviert werden. Sie können Temp. 1 als Außentemperatur einstellen. Je nach den eingestellten Temperaturwerten arbeiten Wärmepumpe und Heizung automatisch. • Drücken Sie **[▲]/[▼]** zum Einstellen von Temp. 1 (-23˚C-16˚C).
Temp. 2	Diese kann ausschließlich im Automatikmodus aktiviert werden. Sie können Temp. 2 als Außentemperatur einstellen. Je nach den eingestellten Temperaturwerten arbeiten Wärmepumpe und Heizung automatisch. • Drücken Sie **[▲]/[▼]** zum Einstellen von Temp. 2 (-23˚C-51˚C).
Wärmepumpe	Diese kann ausschließlich im manuellen Modus aktiviert werden. • Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Wärmepumpensteuerung.
Heizung	Diese kann ausschließlich im manuellen Modus aktiviert werden. • Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Heizungssteuerung.
Smart Care	Nur aktiviert, wenn ein KI-Controller angeschlossen ist Schaltfläche **[Festlegen/Aufheben]**: Smart Care aktivieren/deaktivieren
Kooperative Steuerung	Nur aktiviert, wenn ein KI-Controller angeschlossen ist Schaltfläche **[Festlegen/Aufheben]**: Kooperative Steuerung aktivieren/deaktivieren
UVnano	Pouze pro režim UVnano - podpora vnitřní jednotky, režim UVnano - ovládání Schaltfläche **[Festlegen/Aufheben]**: UVnano . aktivieren/deaktivieren

Hinweis

IE 2Set

- Die entsprechende Funktion kann nur im 2er-Einstellung-Automatikbetrieb für Innenraum-/Außenluft verwendet werden. (Ob jedes Gerät 2er-Einstellung unterstützt, entnehmen Sie bitte dem Handbuch des entsprechenden Geräts.)
- Überschreiben ist eine Funktion, die über die Fernbedienung eingestellt werden kann. Informationen zum Inhalt der Überschreiben-Funktion finden Sie im Handbuch der Fernbedienung.
- Im IE 2Set wird, gemeinsam mit dem Auto-Symbol, der tatsächliche Betriebsmodus (Kühlung, Heizung) des Produkts angezeigt.

Bewegungserkennung

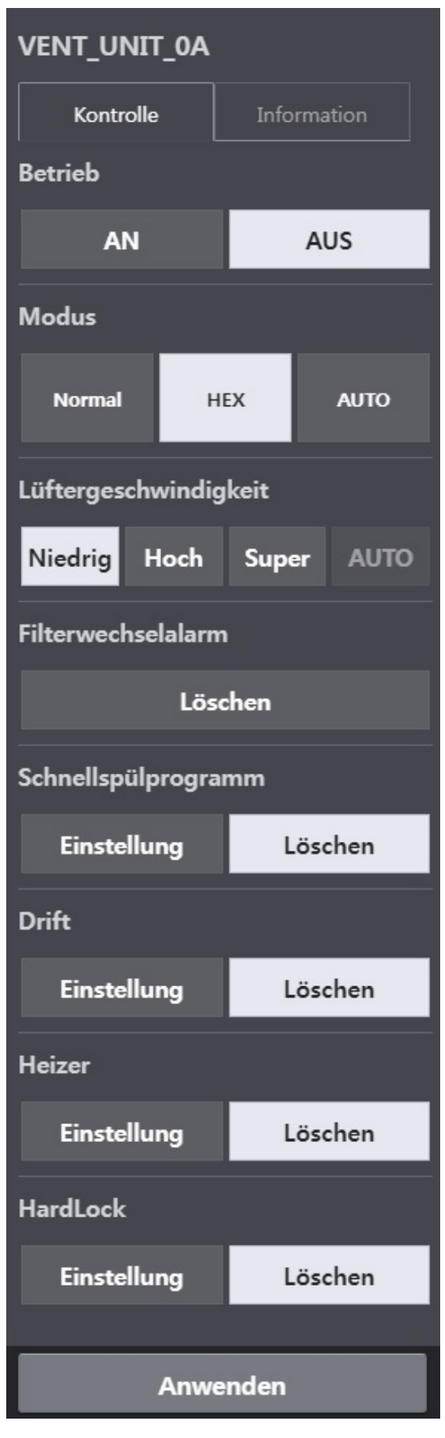
- Wann immer der Auslastungsmelder mit der Innenraumgeräteeinheit verbunden ist, hat die Einstellung über die Zentralsteuerung Vorrang vor dem entsprechenden Auslastungsmelder. Informationen bezüglich des Inhalts des Auslastungsmelders finden Sie in der Bedienungsanleitung für die Innenraumgeräteeinheit oder des Trockenkontakts.

- Sobald die belegte Einstellung geändert wird, sind die automatisch eingestellte Kühleinstelltemperatur und die Heizeinstelltemperatur die als letzte ausgeführte Kühleinstelltemperatur und Heizeinstelltemperatur des Zeitplans, und sollte kein zuvor ausgeführter Ablaufplan existieren, wird dieser als Standardwert festgelegt.

  (Beispiel)
  09:00 - 12:00: Ausgelastet/Kühleinstelltemperatur 27°C/Heizeinstelltemperatur 18°C
  12:00 - 13:00: Ausgelastet/Kühleinstelltemperatur 29°C/Heizeinstelltemperatur 16°C
  13:00 - 15:00: Ausgelastet/Kühleinstelltemperatur 26°C/Heizeinstelltemperatur 19°C

  Sollte es nach 15:00 Uhr ohne Zeitplan leer sein, beträgt die Kühleinstelltemperatur 29°C und die Heizeinstelltemperatur 16°C, und falls sie ausgelastet ist, ändert sich die Kühleinstelltemperatur auf 26°C und die Heizeinstelltemperatur auf 19°C.

ERV



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[Normal]** Taste: Verwirbelt die verbrauchte Luft, ohne den elektrischen Wärmetauscher zu durchlaufen • **[HEX]** Taste: Wirbelt sowohl die Luftversorgung/verbrauchte Luft durch den elektrischen Wärmetauscher • **[AUTO]** Taste: Schaltet in den Vier-Jahreszeiten-Modus
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[Super]** Taste: Stellt die Lüftergeschwindigkeit auf Max. Geschwindigkeit • **[AUTO]** Taste: **[Niedrig]**-**[Hoch]**-**[Super]** automatische Umschaltung - Benutzereinstellung ist unmöglich - Wird Drift/Schnellspülprogramm eingestellt, wird die **[AUTO]** Lüftergeschwindigkeit ausgewählt - Wird Drift/Schnellspülprogramm gelöscht, wird die **[Hoch]** Lüftergeschwindigkeit ausgewählt - Während des **[AUTO]** Betriebs, wenn **[Niedrig]/[Hoch]/[Super]** ausgewählt wird, wird die Drift/Schnellspülprogramm-Funktion im Betrieb gelöscht
Filterwechselalarm	• **[Löschen]**-Taste: Im Falle eines Filterwechselalarms sorgt es dafür dass der Filterwechselalarm aufgehoben wird
Zusatzfunktion	• Schnellspülprogramm **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Schnellspülprogramm-Funktion (Wird die Schnells-Funktion ausgewählt, wird die Drift-Funktion gelöscht) • Drift **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Drift-Funktion (Wird die Drift-Funktion ausgewählt, wird die Schnells-Funktion gelöscht) • Heizer **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Heizer-Funktion
Luftkühlung um Mitternacht(NTFC)	• **[Einstellen/Löschen]**-Taste: Einstellen/Löschen der Nachtluftkühlfunktion, die zur Kühlung des Außengeräts verwendet werden kann, sollte die Außentemperatur nachts niedriger als die Basistemperatur sein
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann

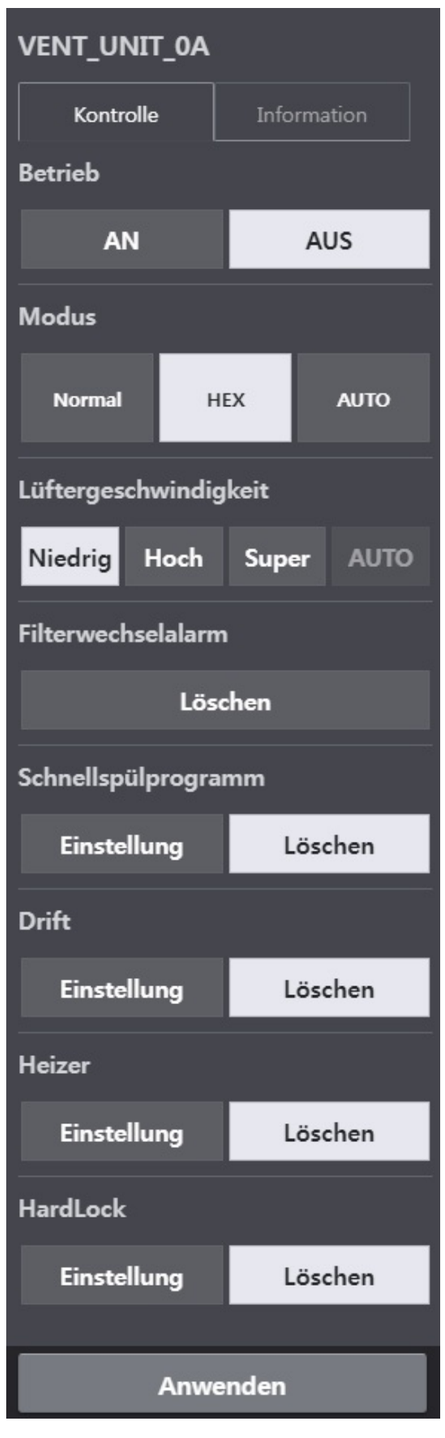
ERV DX



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[Normal]** Taste: Verwirbelt die verbrauchte Luft, ohne den elektrischen Wärmetauscher zu durchlaufen • **[HEX]** Taste: Wirbelt sowohl die Luftversorgung/verbrauchte Luft durch den elektrischen Wärmetauscher • **[AUTO]** Taste: Schaltet in den Vier-Jahreszeiten-Modus
Einstellen temperatur	Drücken Sie die **[▲]/[▼]** Taste, um die gewünschte Temperatur einzustellen
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[Super]** Taste: Stellt die Lüftergeschwindigkeit auf Max. Geschwindigkeit • **[AUTO]** Taste: **[Niedrig]**-**[Hoch]**-**[Super]** automatische Umschaltung - Benutzereinstellung ist unmöglich - Wird Drift/Schnellspülprogramm eingestellt, wird die **[AUTO]** Lüftergeschwindigkeit ausgewählt - Wird Drift/Schnellspülprogramm gelöscht, wird die **[Hoch]** Lüftergeschwindigkeit ausgewählt - Während des **[AUTO]** Betriebs, wenn **[Niedrig]/[Hoch]/[Super]** ausgewählt wird, wird die Drift/Schnellspülprogramm-Funktion im Betrieb gelöscht
Ko-Klimaanlage	• **[KÜHLEN]** Taste: Betreibt die ERV DX im Kühlungsmodus • **[AUTO]** Taste: Betreibt die ERV DX im auto • **[HEIZEN]** Taste: Betreibt die ERV DX als Heizungsmodus • **[AUS]** Taste: AUS die Klimaanlage der ERV DX
Eingestellter Temperaturbereich	Stellt der Benutzer die gewünschte Temperatur individuell ein, ist es möglich, die gewünschte Temperatur außerhalb der vorgesehenen Temperaturgrenzen einzustellen
Filterwechselalarm	• **[Löschen]**-Taste: Im Falle eines Filterwechselalarms sorgt es dafür dass der Filterwechselalarm aufgehoben wird
Zusatzfunktion	• Schnellspülprogramm **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Schnellspülprogramm-Funktion (Wird die Schnells-Funktion ausgewählt, wird die Drift-Funktion gelöscht) • Drift **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Drift-Funktion (Wird die Drift-Funktion ausgewählt, wird die Schnells-Funktion gelöscht) • Heizer **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Heizer-Funktion • Befeuchten **[Einstellen]** Taste: Einstellung die Befeuchtens-Funktion (nur für den Klimaanlagenheizungsmodus)
Luftkühlung um Mitternacht(NTFC)	• **[Einstellen/Löschen]**-Taste: Einstellen/Löschen der Nachtluftkühlfunktion, die zur Kühlung des Außengeräts verwendet werden kann, sollte die Außentemperatur nachts niedriger als die Basistemperatur sein
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann
Sperrmodus	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen sperren, so dass der Benutzer keine Moduseinstellung mit der individuellen Fernsteuerung steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Lüftergeschwindigkeitneinstellung mit der individuellen Fernsteuerung nicht steuern kann
	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Temperatureinstellung mit der individuellen

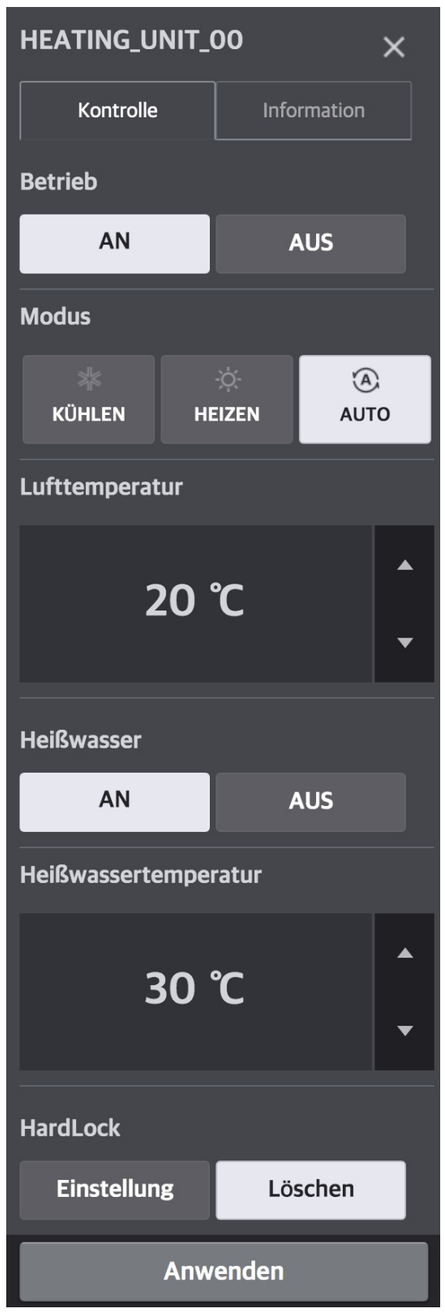
Lüftersperre	Fernsteuerung nicht steuern kann
Luftkühlungssperre um Mitternacht	• **[Einstellen/Löschen]**-Taste: Einstellen/Löschen des auf der Fernbedienung eingestellten Nachtluftkühlplans

Bodenmontage Entlüftung



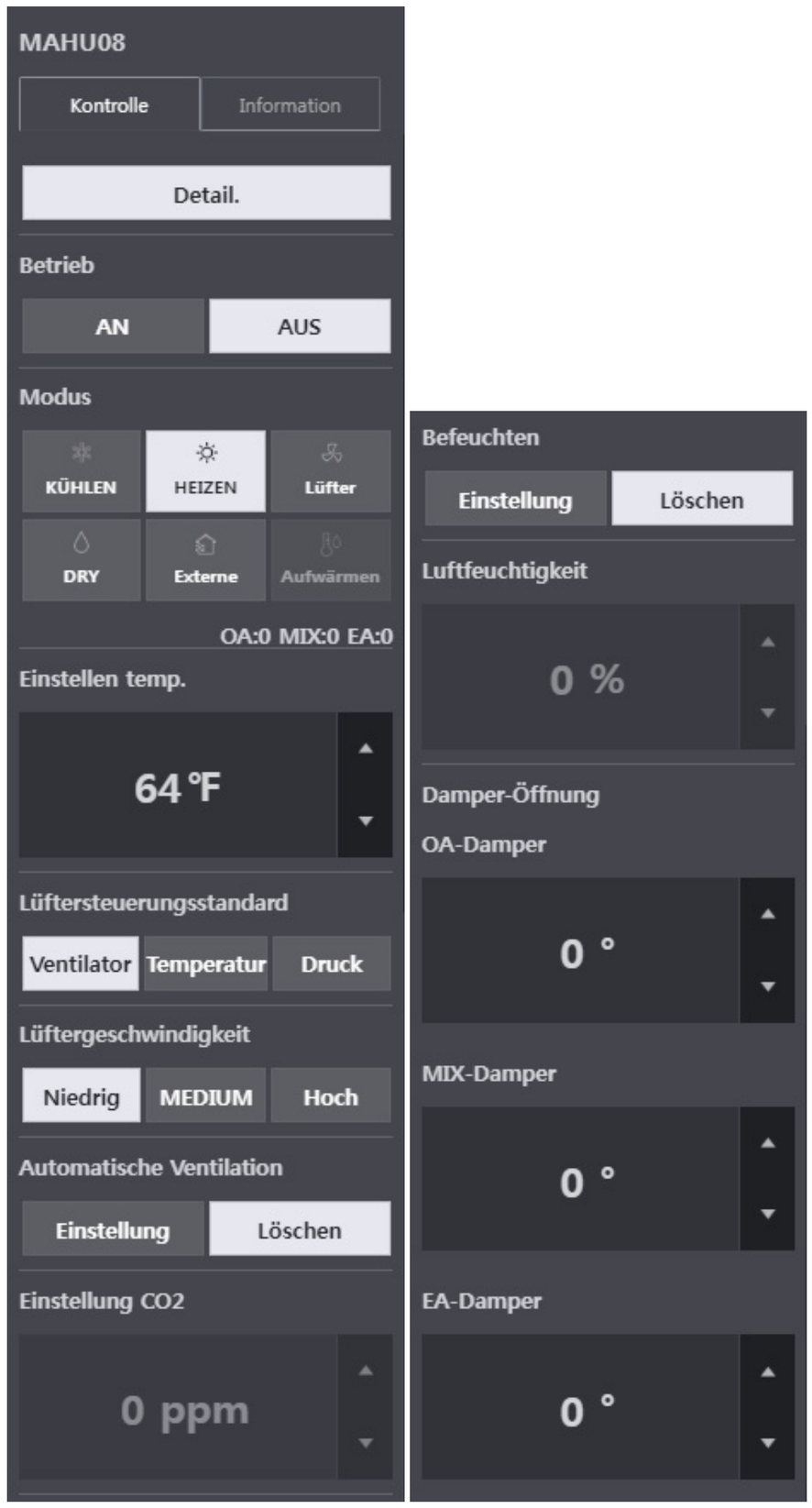
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[Normal]** Taste: Verwirbelt die verbrauchte Luft, ohne den elektrischen Wärmetauscher zu durchlaufen • **[HEX]** Taste: Wirbelt sowohl die Luftversorgung/verbrauchte Luft durch den elektrischen Wärmetauscher • **[AUTO]** Taste: Schaltet in den Vier-Jahreszeiten-Modus
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[Super]** Taste: Stellt die Lüftergeschwindigkeit auf Max. Geschwindigkeit • **[AUTO]** Taste: **[Niedrig]**-**[Hoch]**-**[Super]** automatische Umschaltung - Benutzereinstellung ist unmöglich - Wird Drift/Schnellspülprogramm eingestellt, wird die **[AUTO]** Lüftergeschwindigkeit ausgewählt - Wird Drift/Schnellspülprogramm gelöscht, wird die **[Hoch]** Lüftergeschwindigkeit ausgewählt - Während des **[AUTO]** Betriebs, wenn **[Niedrig]/[Hoch]/[Super]** ausgewählt wird, wird die Drift/Schnellspülprogramm-Funktion im Betrieb gelöscht
Filterwechselalarm	• **[Löschen]**-Taste: Im Falle eines Filterwechselalarms sorgt es dafür dass der Filterwechselalarm aufgehoben wird
Zusatzfunktion	• Schnellspülprogramm **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Schnellspülprogramm-Funktion (Wird die Schnells-Funktion ausgewählt, wird die Drift-Funktion gelöscht) • Drift **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Drift-Funktion (Wird die Drift-Funktion ausgewählt, wird die Schnells-Funktion gelöscht) • Heizer **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Heizer-Funktion
Luftkühlung um Mitternacht(NTFC)	• **[Einstellen/Löschen]**-Taste: Einstellen/Löschen der Nachtluftkühlfunktion, die zur Kühlung des Außengeräts verwendet werden kann, sollte die Außentemperatur nachts niedriger als die Basistemperatur sein
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann

Heating



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um • **[AUTO]** Taste: Schaltet auf den Automatikmodus um
Heißwassertemperatur/Wassertemperatur ein/aus	Drücken Sie die **[▲]/[▼]** Taste, um die Heißwassertemperatur/Wassertemperatur ein/aus einzustellen Sie wird auf der Grundlage der in **[Einstellung]-[Installieren]** ausgewählten eingestellten Temperatur angezeigt • Wird **[Wasser aus/Wassereintritt]** ausgewählt, wird sie als Wasser-Innen-/Außentemperatur angezeigt • Wird **[Innen]** ausgewählt, wird sie als Lufttemperatur angezeigt
Heißwasser	• **[AN]** Taste: AN den Heißwasserbetrieb - Wird Heißwasser betrieben, während das Gerät sich im Automatik-/Kühlungsbetrieb befindet, werden der entsprechende Modus und das Heißwasser im Symbol des Inhaltsanzeigenabschnitts angezeigt - Wird Heißwasser betrieben, während das Gerät geAUS wird, wird das Symbol des Inhaltsanzeigenabschnitts aktiviert und Heißwasser wird angezeigt • **[AUS]** Taste: AUS den Heißwasserbetrieb
Heißwassertemperatur	Drücken Sie die **[▲]/[▼]** Taste, um die Heißwassertemperatur einzustellen
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann

AHU

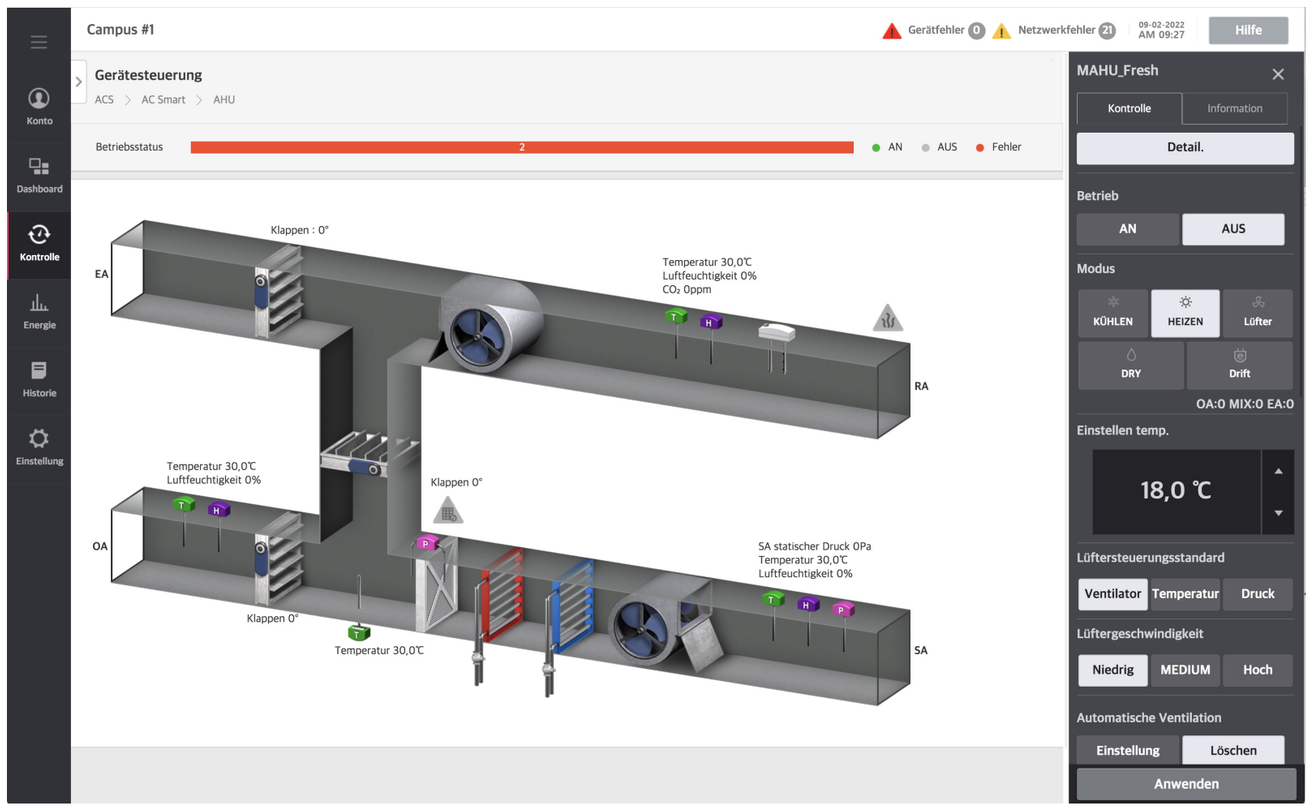


Kategorie	Inhalte
Details anzeigen	Drücken Sie **[Detail.]**, um Detailinformationen zu überprüfen (Mobile sind jedoch ausgeschlossen)
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um • **[Lüfter]** Taste: Luftreinigungsbetrieb. Wird Nur Wind ausgewählt, kann man die gewünschte Temperatur nicht einstellen • **[DRY]** Taste: Entfernt die Feuchtigkeit in der Regenzeit, oder wenn die Feuchtigkeit hoch ist. Wird Entfeuchtung ausgewählt, kann die gewünschte Temperatur nicht eingestellt werden • **[Drift]** Taste: Betrieb zum Finden des Betriebspunkts mit der besten Ventilationssystemeffizienz zum Drift. Die verschmutzte Innenluft wird laufend durch die größere EntlüftungsLüftergeschwindigkeit, als die Luftzufuhr, entfernt • Schaltfläche **[Nacherwärmung]** : hält Temperatur und Luftfeuchtigkeit bei aktiver Kühl-/Heizfunktion konstant. (Nur wenn die AHU-Nachheizspule verwendet wird.)
Einstellen temperatur	Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur einzustellen
Lüftersteuerungsstandard	• **[Ventilator]** Taste: Steuert den Lüfter aufgrund des Lüftergeschwindigkeitnstatus • **[Temperatur]** Taste: Steuert den Lüfter aufgrund des Temperaturstatus • **[Druck]** Taste: Steuert den Lüfter aufgrund des fixen Druckstatus
Lüftergeschwindigkeit	Das erscheint nur, wenn der Lüftersteuerungsstandard die Lüftergeschwindigkeit ist • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[MEDIUM]** Taste: Stellt die Lüftergeschwindigkeit auf normal • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell
Automatische Ventilation	Es tritt nur auf, wenn während der AHU-Geräteregistrierung die automatische Ventilation oder automatische Ventilation/Befeuchten als Zusatzfunktion ausgewählt wird • Automatische Ventilation **[Einstellen/Löschen]** Taste: AN/AUS die automatische Ventilation
Einstellung CO_2	Sie wird nur ermöglicht, wenn die automatische Ventilationsfunktion eingestellt wird Drücken Sie die Taste **[▲]/[▼]**, um in einer Einheit von 100 ppm innerhalb eines Bereichs von 100 ppm bis 2.000 ppm einzustellen
Befeuchten	Es erscheint nur, wenn während der AHU-Gerätregistrierung Befeuchten oder automatische Ventilation/Befeuchten als Zusatzfunktion ausgewählt wird • Befeuchten **[Einstellen/Löschen]** Taste: AN/AUS die Befeuchtensfunktion
Luftfeuchtigkeit	Sie wird nur ermöglicht, wenn die Befeuchtensfunktion eingestellt wird Drücken Sie die **[▲]/[▼]** Taste, um die Zielfeuchtigkeit einzustellen
Damper-Öffnung	• Drücken Sie **[OA-Damper]**: **[▲]/[▼]**-Taste, um den Öffnungswert der Außenluftklappe in Einheiten von 1º innerhalb 0º ~ 90º-Bereich festzulegen • Drücken Sie **[MIX-Damper]**: **[▲]/[▼]**-Taste, um den Öffnungswert der Mischerluftklappe in Einheiten von 1º innerhalb 0º ~ 90º-Bereich festzulegen • Drücken Sie **[EA-Damper]**: **[▲]/[▼]**-Taste, um den Öffnungswert der Luftauslassklappe in Einheiten von 1º innerhalb 0º ~ 90º-Bereich festzulegen Wenn Sie die **[Einstellung]-[Systemeinstellung]**'s **Damper-Öffnungsformel anwenden** als **einstellen**, einstellen Funktioniert sie als OA-Damper = Entlüften (EA), OA-Damper = MIX-Damper = 90

HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann

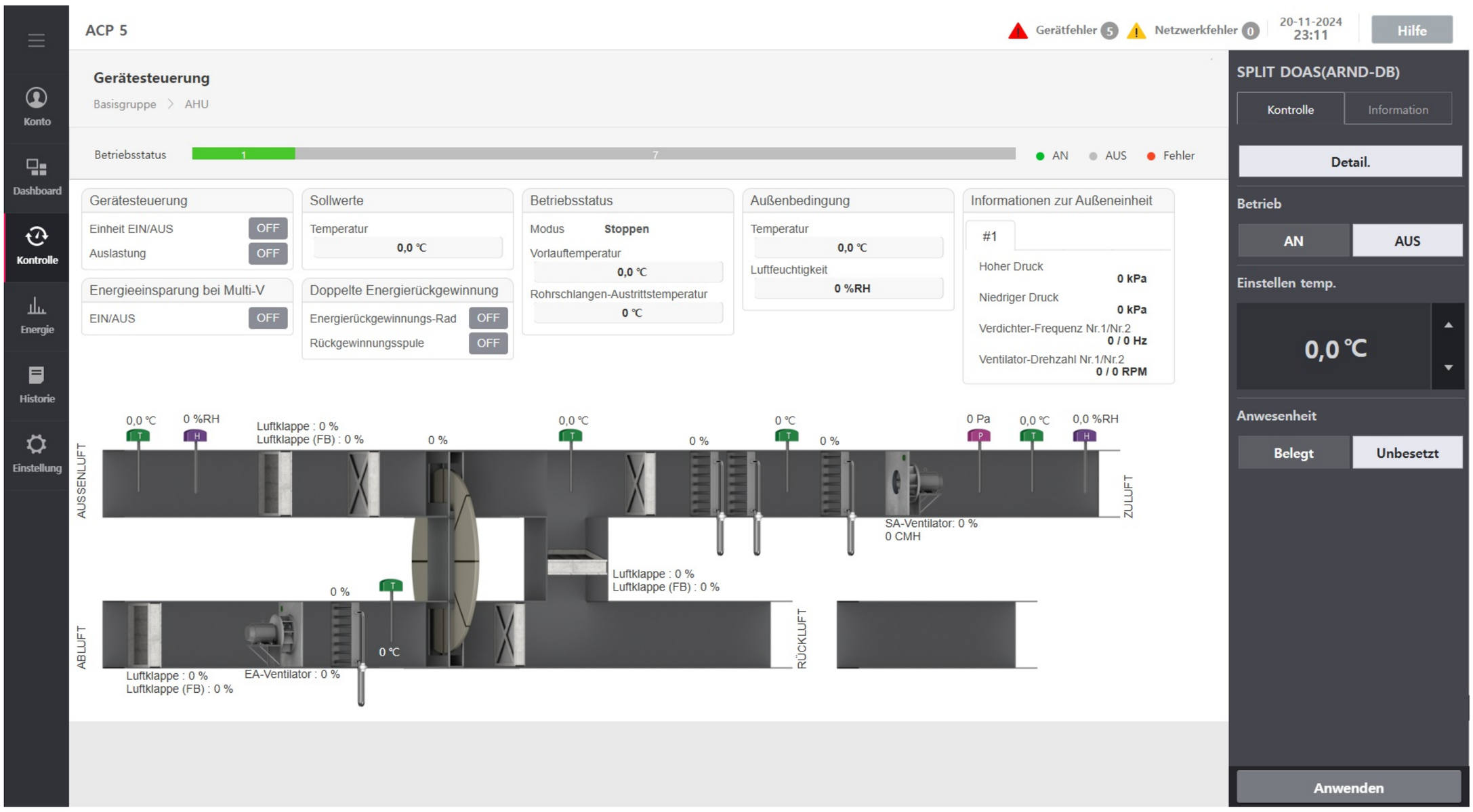
AHU im Detail anzeigen

Im Kontrollbildschirm des AHU können Sie die Taste **Details.]** drücken, um Detailinformationen zu überprüfen.



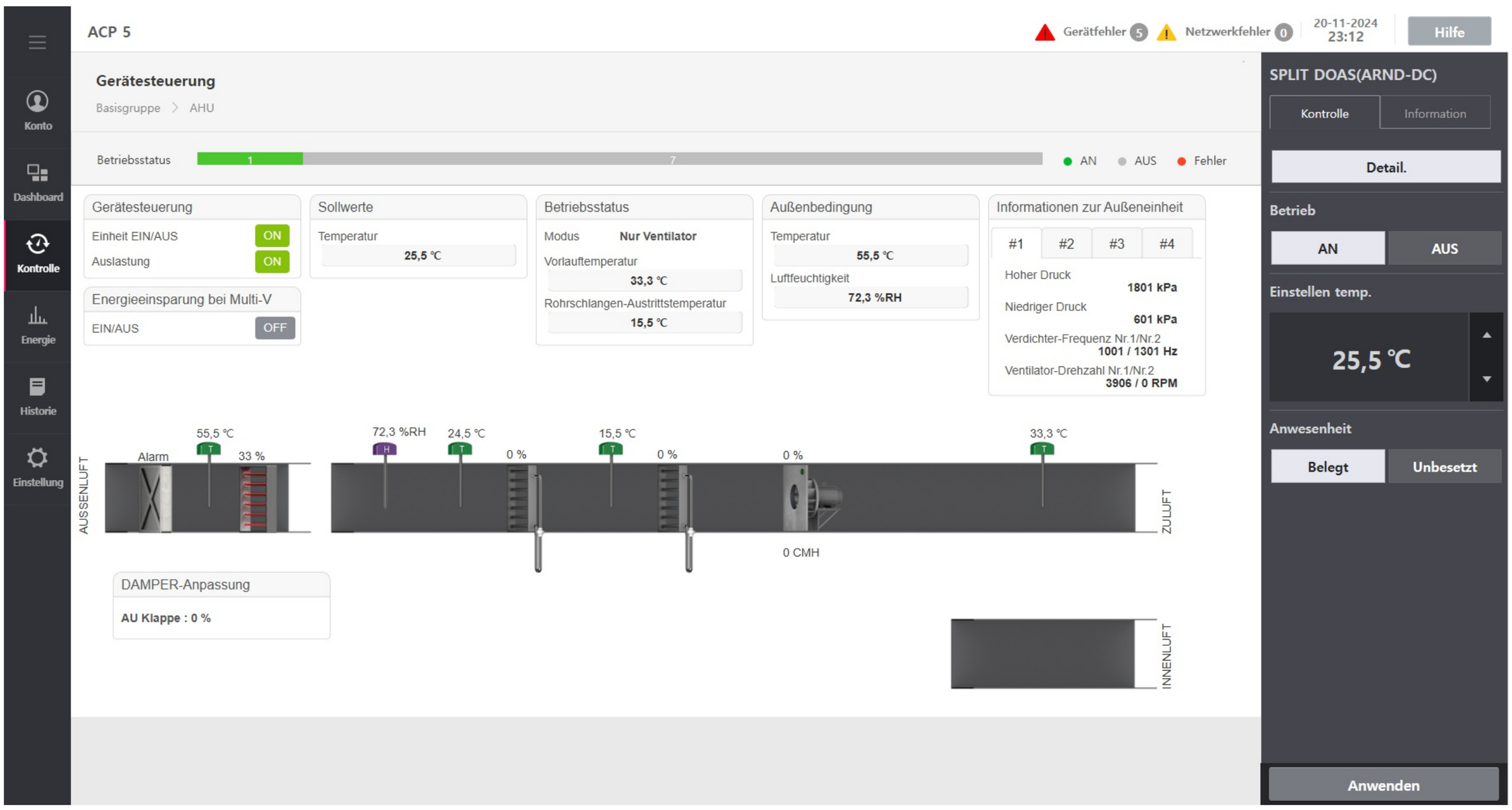
SPLIT DOAS

SPLIT DOAS(ARND/DB)



Element	Beschreibung
Details anzeigen	Um detaillierte Informationen anzuzeigen, auf die Schaltfläche **[View Details]** klicken (Nicht verfügbar bei Mobilgeräten).
Betriebsstatus	• Schaltfläche **[Betrieb starten]**: Grätebetrieb starten • Schaltfläche **[Betrieb beenden]**: Gerätebetrieb beenden
Zieltemperatur	Um die Zieltemperatur festzulegen, auf die Schaltfläche **[▲]/[▼]**
Belegt	Funktion zur Festlegung des Raumes, der von DOAS als belegt oder als frei verwaltet wird. • Schaltfläche **[Belegt]**: Auf Belegt stellen • Schaltfläche **[Frei]**: Auf Frei stellen

SPLIT DOAS(ARND/DC)



Element	Beschreibung
Details anzeigen	Um detaillierte Informationen anzuzeigen, auf die Schaltfläche **[View Details]** klicken (Nicht verfügbar bei Mobilgeräten).
Betriebsstatus	• Schaltfläche **[Betrieb starten]**: Grätebetrieb starten

	• Schaltfläche **[Betrieb beenden]**: Gerätebetrieb beenden
Zieltemperatur	Um die Zieltemperatur festzulegen, auf die Schaltfläche **[▲]/[▼]**
Belegt	Funktion zur Festlegung des Raumes, der von DOAS als belegt oder als frei verwaltet wird. • Schaltfläche **[Belegt]**: Auf Belegt stellen • Schaltfläche **[Frei]**: Auf Frei stellen

Ineinandergreifende Energieeinsparungssteuerung bei Multi-V

Dies ist eine Funktion zur Steuerung der DOAS- und Multi-V-Betriebsmodi auf Basis des Betriebsstatus von Multi-V und Innen- und Außen-Lufttemperatur / Luftfeuchtigkeit, um Energie beim System einzusparen.

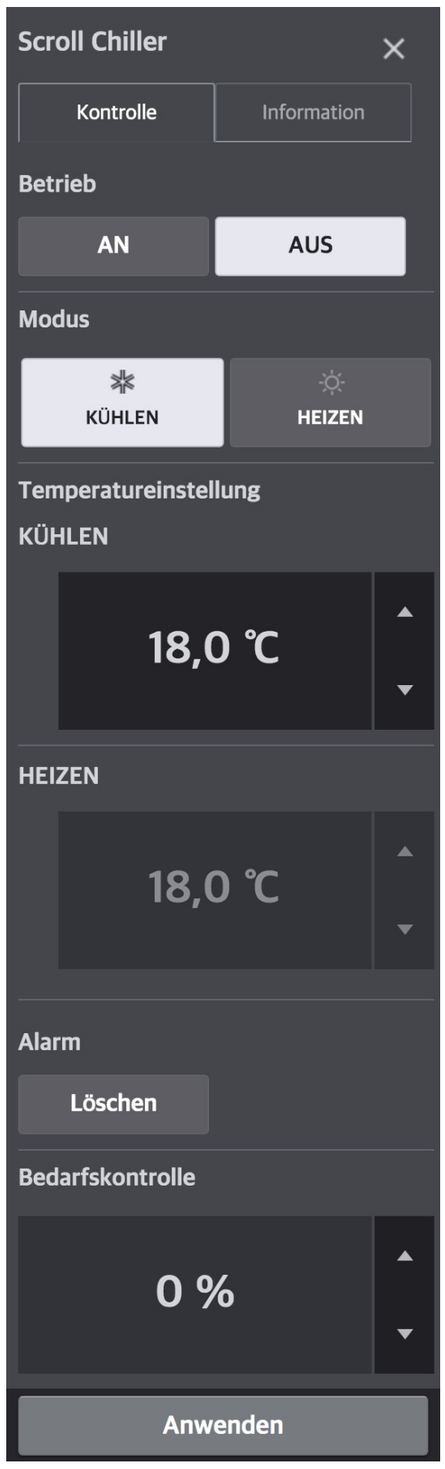
Betrieb zur Energieeinsparung ist nur möglich unter annehmbaren Innenraum-Konditionen (bei Kühlbetrieb Temperaturen von 28℃ oder niedriger und relative Luftfeuchtigkeit von 60% oder geringer).. Der Frischegrad und das Maß der Energieeinsparung kann je nach Wunsch angepasst werden.

Hinweis

- **Um ineinandergreifende Energieeinsparungssteuerung bei Multi-V zu benutzen, brauchen Sie einen DOAS Sensor für Innenraum-Luftfeuchtigkeit.**
- **Betrieb zur Energieeinsparung ist nur möglich, wenn DOAS im Kühlmodus oder Entfeuchtungsmodus ausgeführt wird und alle Inneneinheiten im Kühlbetrieb sind.**
- **Energieeinsparstufe: Je näher Sie der Stufe 3 kommen, desto schwächer wird Entfeuchtung und desto stärker ist die Energieeinsparung.**

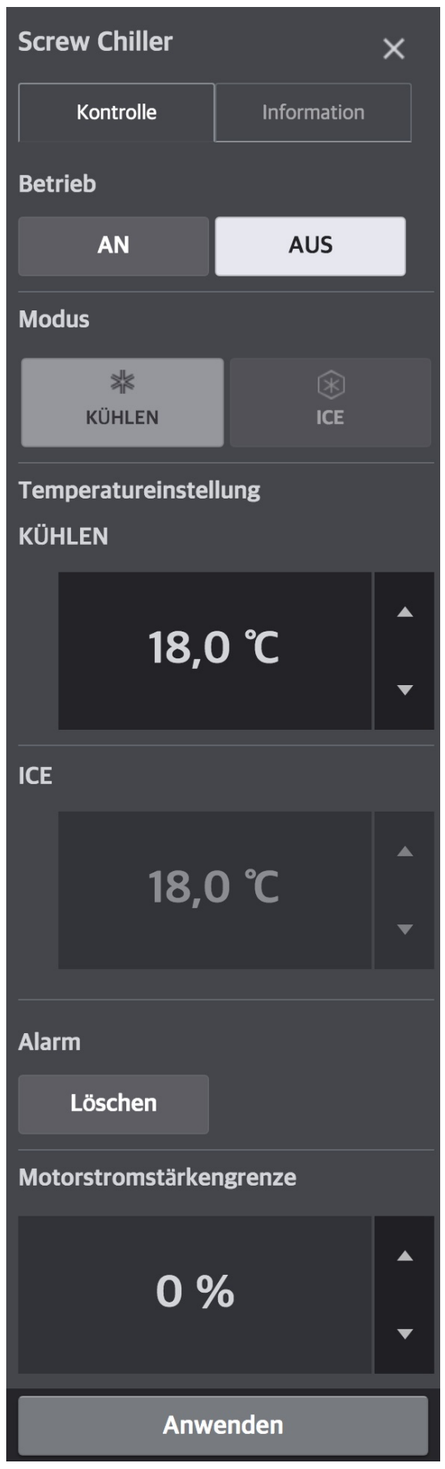
➔ Ineinandergreifende Energieeinsparungssteuerung bei Multi-V festlegen

Scroll-Kühler



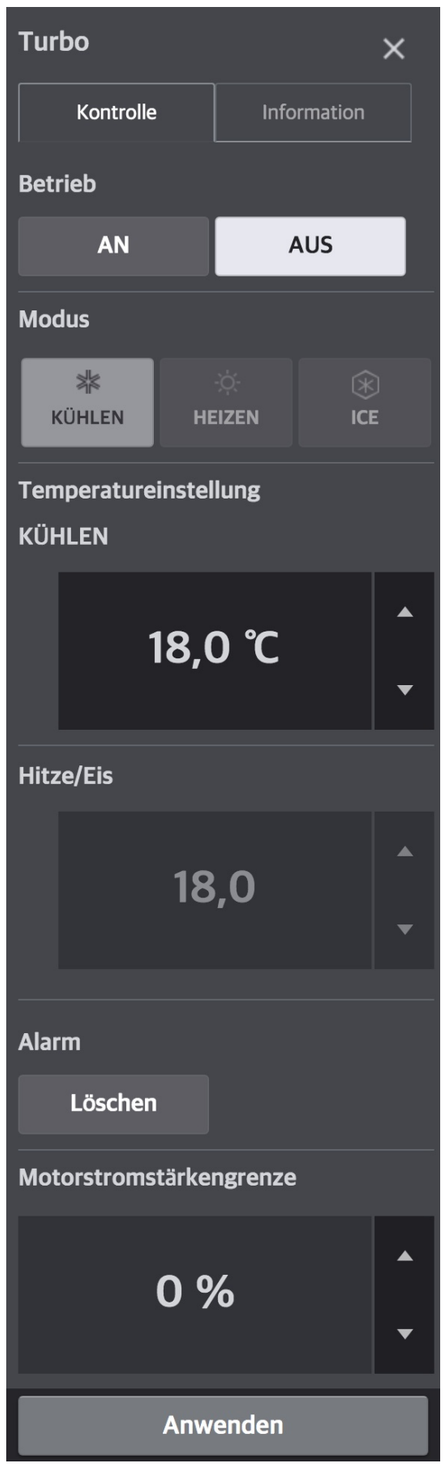
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	(Erscheint nur, wenn das Gerät den entsprechenden Modus unterstützt) • **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um
Einstellen temperatur	Stellt die Lastwasseraustrittstemperatur für die Innenkühlung/Heizung ein Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur des Kühlungsmodus und der Heizungsmodus einzustellen
Alarm	**[Löschen]** Taste: Löscht den Alarm während des Kältemaschine Alarms
Bedarfskontrolle	Drücken Sie die **[▲]/[▼]** Taste, um die Leistungsbedarfsgrenzenrate einzustellen

Screw-Kühler



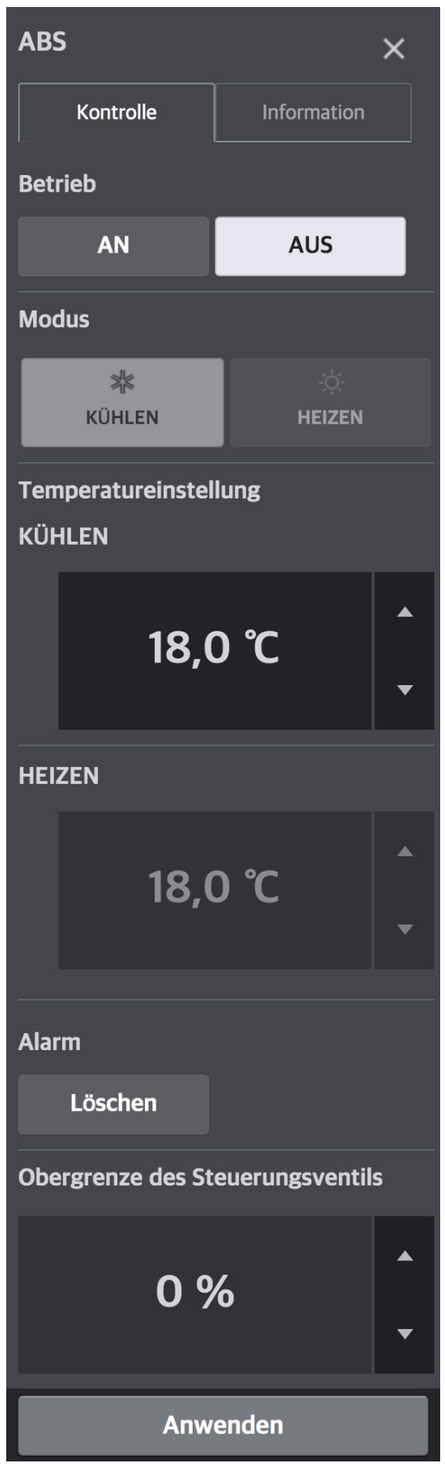
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	Die Modussteuerung ist unmöglich. Die Steuerung der eingestellten Temperatur des überwachten Modus
Einstellen temperatur	Stellt die Lastwasseraußentemperatur für die Innenkühlung/Eisherstellung ein Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur des Kühlungsmodus und des Eisherstellungsmodus einzustellen
Alarm	**[Löschen]** Taste: Löscht den Alarm während des Kältemaschine Alarms
Motorstromstärkengrenze	Drücken Sie die **[▲]/[▼]** Taste, um die aktuelle Motorgrenzenrate einzustellen

Zentrifugalkühler



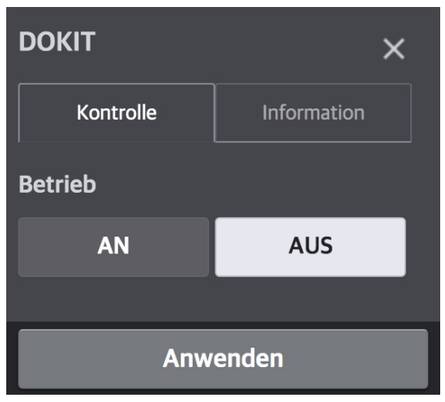
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	Die Modussteuerung ist unmöglich. Die Steuerung der eingestellten Temperatur des überwachten Modus
Einstellen temperatur	Stellt die Lastwasseraußentemperatur für die Innenkühlung/Heizung/Eisherstellung ein Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur des Kühlungsmodus und des Heizungs-/Eisherstellungsmodus einzustellen
Alarm	**[Löschen]** Taste: Löscht den Alarm während des Kältemaschine Alarms
Motorstromstärkengrenze	Drücken Sie die **[▲]/[▼]** Taste, um die aktuelle Motorgrenzenrate einzustellen

Absorptionskühler



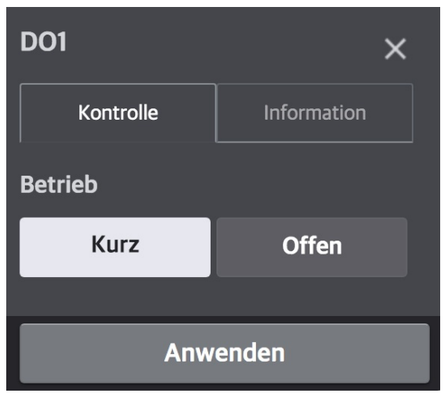
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	Die Modussteuerung ist unmöglich. Die Steuerung der eingestellten Temperatur des überwachten Modus
Einstellen temperatur	Stellt die Lastwasseraustrittstemperatur für die Innenkühlung/Heizung ein Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur des Kühlungsmodus und der Heizungsmodus einzustellen
Alarm	**[Löschen]** Taste: Löscht den Alarm während des Kältemaschine Alarms
Obergrenze des Steuerungsventils	Drücken Sie die **[▲]/[▼]** Taste, um die Obergrenze der Steuerungsventilrate einzustellen

DOKIT



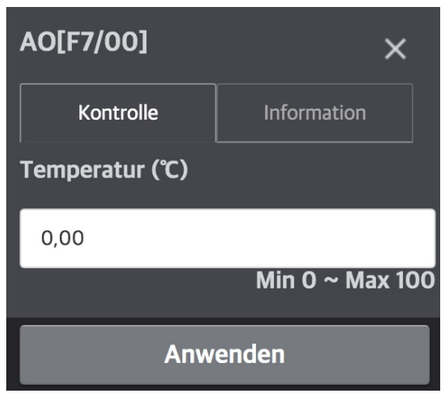
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb

DO



Kategorie	Inhalte
Betrieb	• **[Kurz]** Taste: Kurzsignalausgabe • **[Offen]** Taste: Öffnen-Signalausgabe

AO



Kategorie	Inhalte
Temperatur	Temperaturwert einstellen

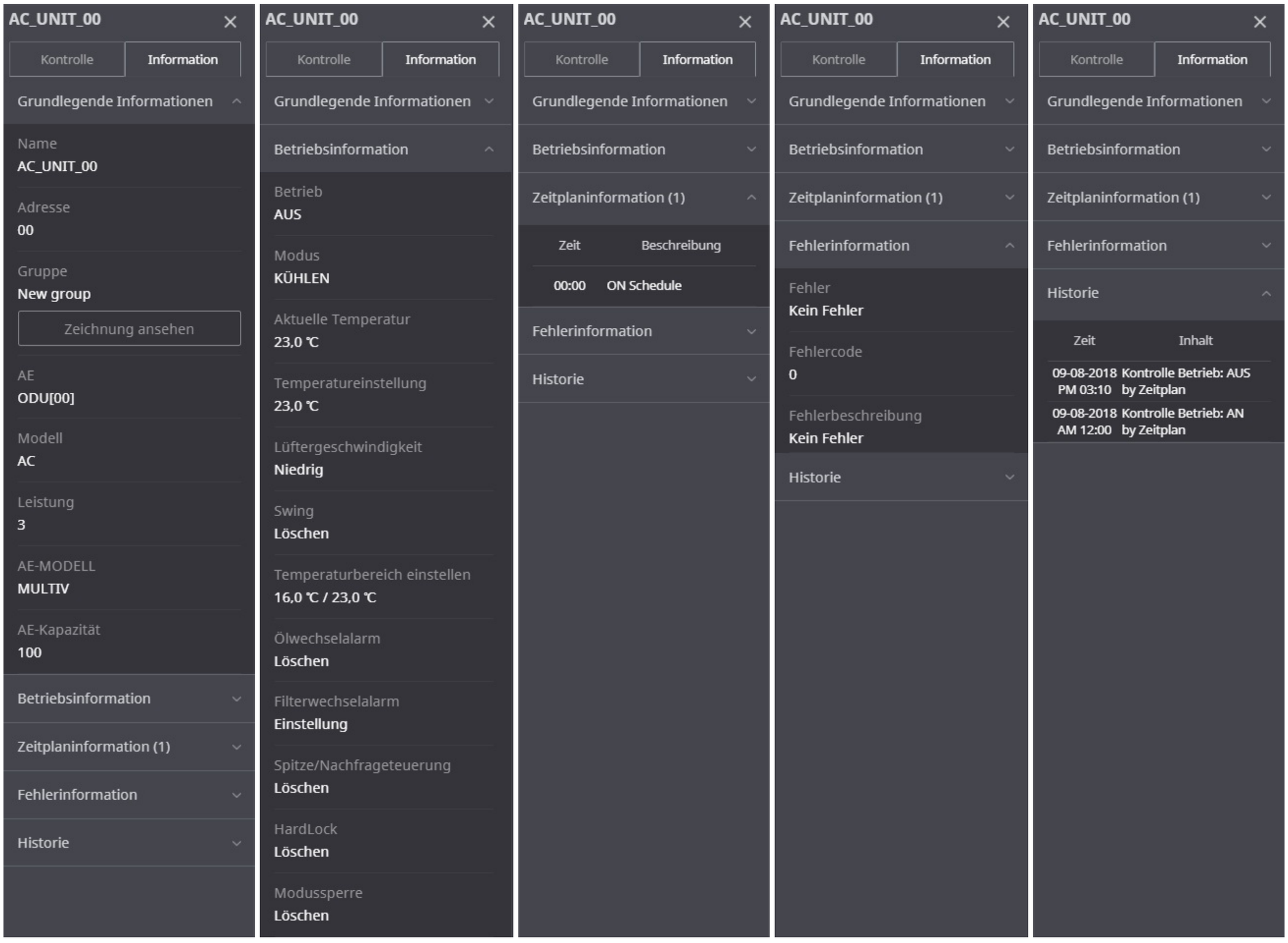
Hinweis

Das Einheitensymbol kann sich je nach der während der Registrierung des Geräts festgelegten Verwendung ändern.

Geräteinformationen

Wenn Sie die Gerätinformationstaste auf dem Gerätesteuerungsbildschirm anklicken, können Sie die Gerätinformation prüfen.

Sie können grundlegende Informationen des Geräts, wie z.B. Betriebsinformationen, Zeitplaninformationen, Fehlerinformationen und den heutigen Verlauf überprüfen.



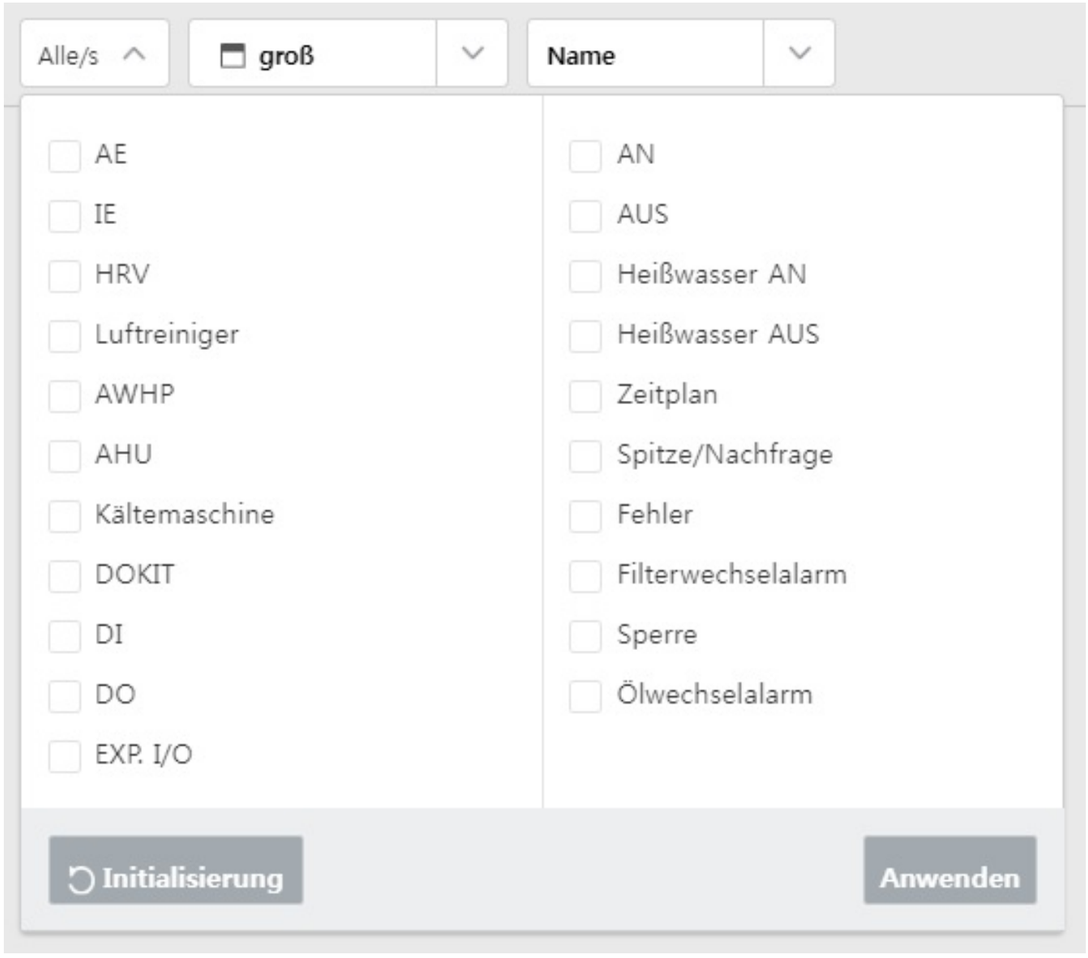
Kontrolle

Sie können das registrierte Gerät auf den gewünschten Status und die Steuerung einstellen.

1. In der linksseitigen Menütaste klicken Sie das **[Steuerung] > [Gerätesteuerung]** Menü an.
2. Im Gerätelistentastenabschnitt klicken Sie die gewünschte Taste an.

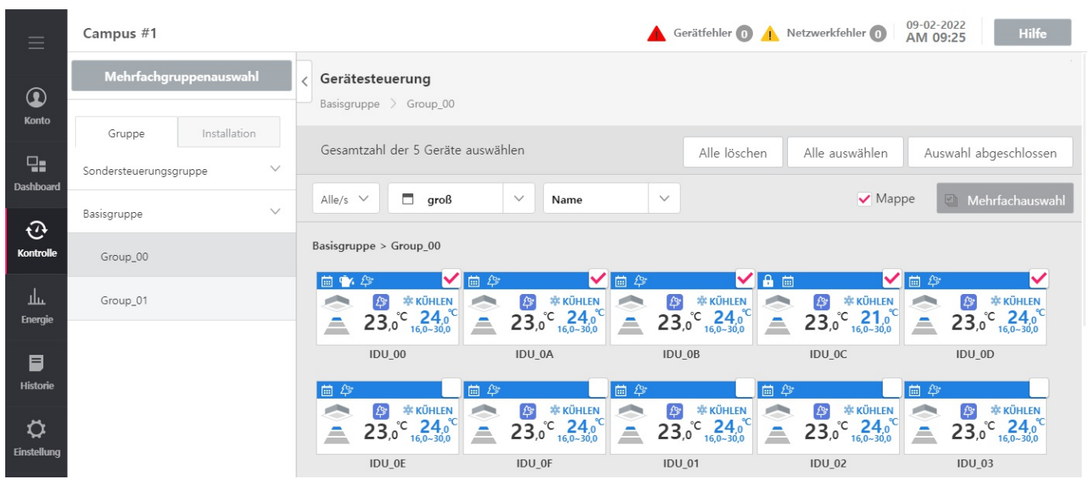
Kategorie	Beschreibung
Gruppe	Liste der Verwaltungsgruppe für die Bequemlichkeit eingestellt
Installation	Liefert aktuell die angeschlossenen Gerätinformationen

3. Im Filterabschnitt klicken Sie die Filtertaste des Gerätetyps oder des Steuerungsstatus.
   - Sie können verschiedene Tasten für alle Filtertasten auswählen.
   - Nur die entsprechenden Informationen werden ausgewählt und angezeigt.



TYP:	Detailkategorie
Gerät	Außengerät, Innenraumgeräteeinheit, Luftreiniger, Luftbehandlungsgerät, Kühler, ERV, Heating, EIN-/AUS des Geräts, DI, DO, Exp.I/O
Status	AN, AUS, Heißwasser AN, Heißwasser AUS, Zeitplan, Spitzenkontrolle, Fehler, Filterwechselalarm, Sperre, Ölwechselalarm

4. Im Geräteabschnitt wählen Sie das zu steuernde Gerät aus.
   - Sie können mehrere Geräte auf einmal zum Steuern auswählen. Um alle Geräte in einer bestimmten Gruppe auszuwählen, klicken Sie die **[Mehrfachauswahl]** Taste an, und klicken Sie die **[Alle auswählen]** Taste an. Entsprechend den mehrfachen ausgewählten Gerätetypen ist die zu steuernde Kategorie begrenzt.



5. Im Steuerungsfenster stellen Sie den entsprechenden Steuerungsstatus der Geräte ein.
6. Wird die Einstellung abgeschlossen, klicken Sie die **[Anwenden]** Taste an.

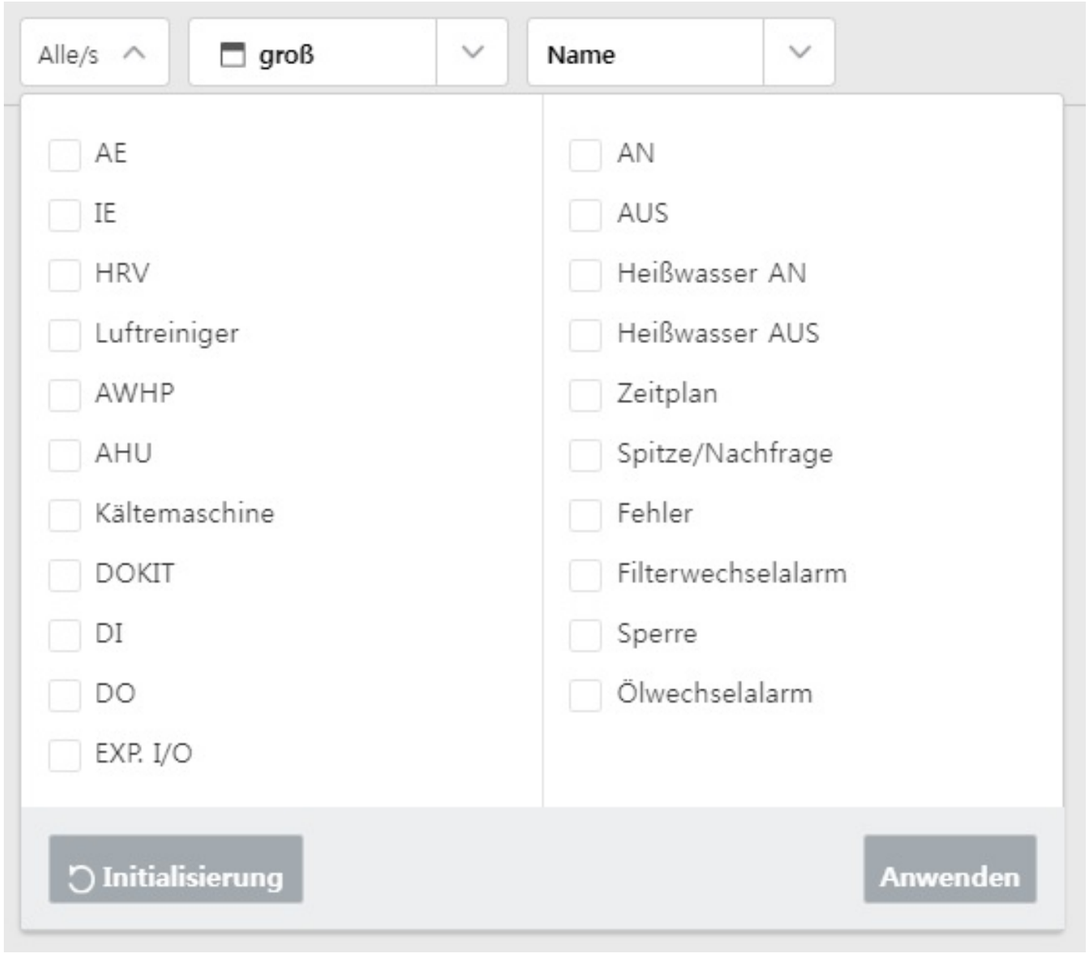
Überwachung

Sie können den Steuerungsstatus des registrierten Geräts prüfen.

1. In der linksseitigen Menütaste klicken Sie das **[Steuerung] > [Gerätesteuerung]** Menü an.
2. Im Gerätelistentastenabschnitt klicken Sie die gewünschte Taste an.

Kategorie	Beschreibung
Gruppe	Liste der Verwaltungsgruppe für die Bequemlichkeit eingestellt
Installation	Liefert aktuell die angeschlossenen Gerätinformationen

3. Im Filterabschnitt klicken Sie die Filtertaste des Gerätetyps oder des zu prüfenden Status an.
   - Sie können verschiedene Tasten für alle Filtertasten auswählen.
   - Nur die entsprechenden Informationen werden ausgewählt und angezeigt.



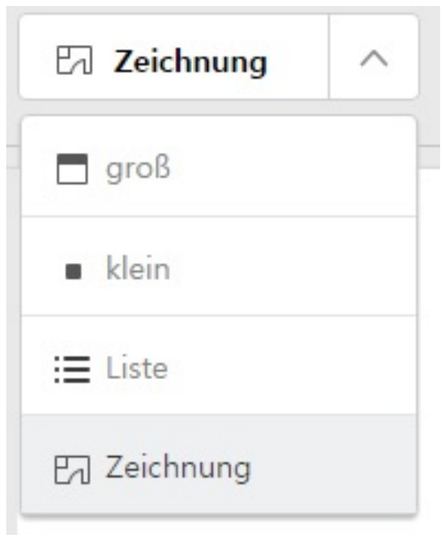
TYP:	Detailkategorie
Gerät	Außengerät, Innenraumgeräteeinheit, Luftreiniger, Luftbehandlungsgerät, Kühler, ERV, Heating, EIN-/AUS des Geräts, DI, DO, Exp.I/O
Status	AN, AUS, Heißwasser AN, Heißwasser AUS, Zeitplan, Spitzenkontrolle, Fehler, Filterwechselalarm, Sperre, Ölwechselalarm

4. Im Geräteabschnitt prüfen Sie die Geräteinformationen.
5. Um den detaillierten Steuerungsstatus zu prüfen, klicken Sie das entsprechende Gerätsymbol an.
   - Das entsprechende Gerätesteuerungsfenster wird angezeigt.

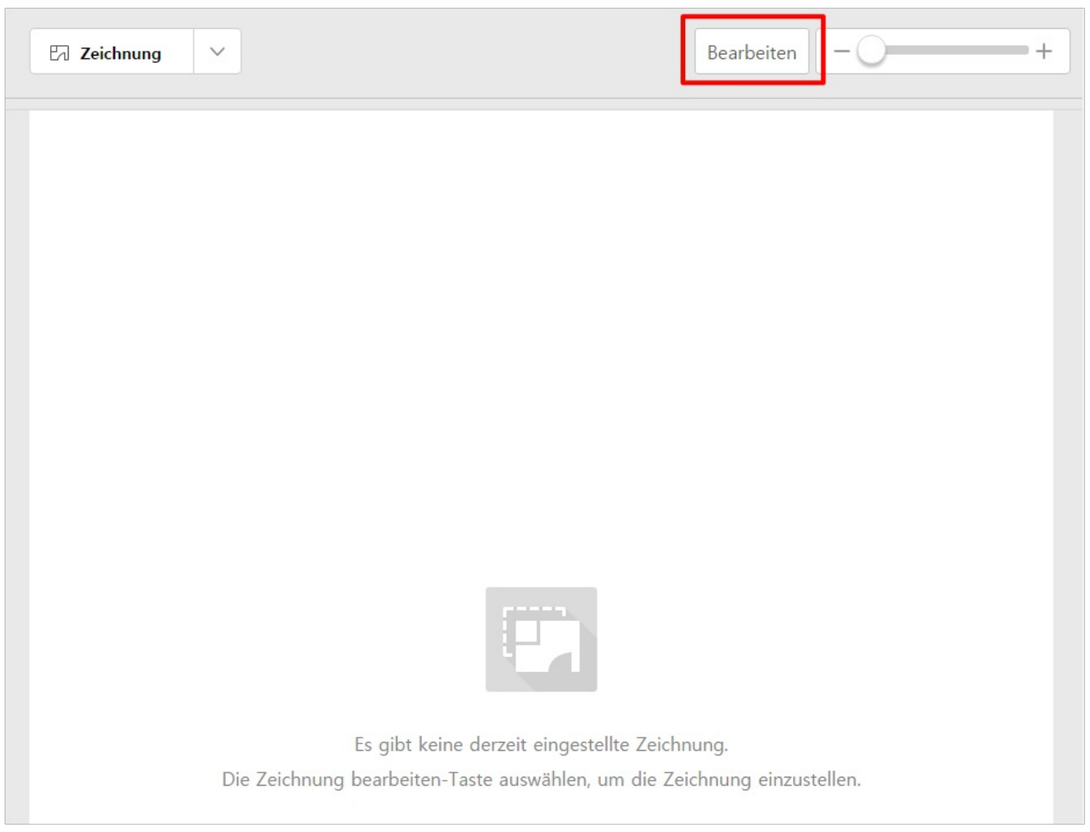
Zeichnung bearbeiten

Falls **[Einstellung]** > **[Systemeinstellung]**- **'Zeichnung' benutzen** als **Einstellung** ausgewählt wird, können Sie die Zeichnung bearbeiten.

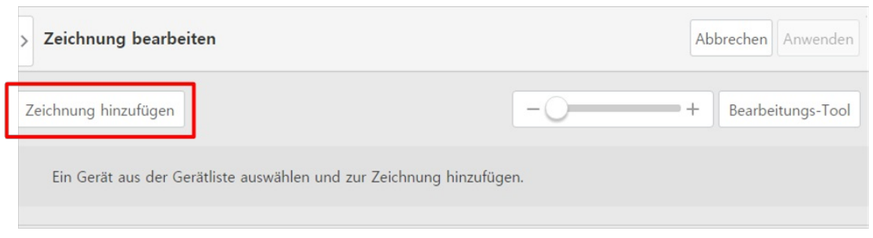
1. In der linksseitigen Menütaste klicken Sie das **[Steuerung]** > **[Gerätesteuerung]** Menü an.
2. Klicken Sie im Registerkartenbereich der Gerätegruppe auf den **[Gruppe]**-Tabulator.
   - Wählen Sie die **[Installation]** Taste aus, wird die Ansichtsmethode **[Zeichnung]** unbrauchbar gemacht.
3. In der Ansichtsmethode klicken Sie **[Zeichnung ansehen]** an.



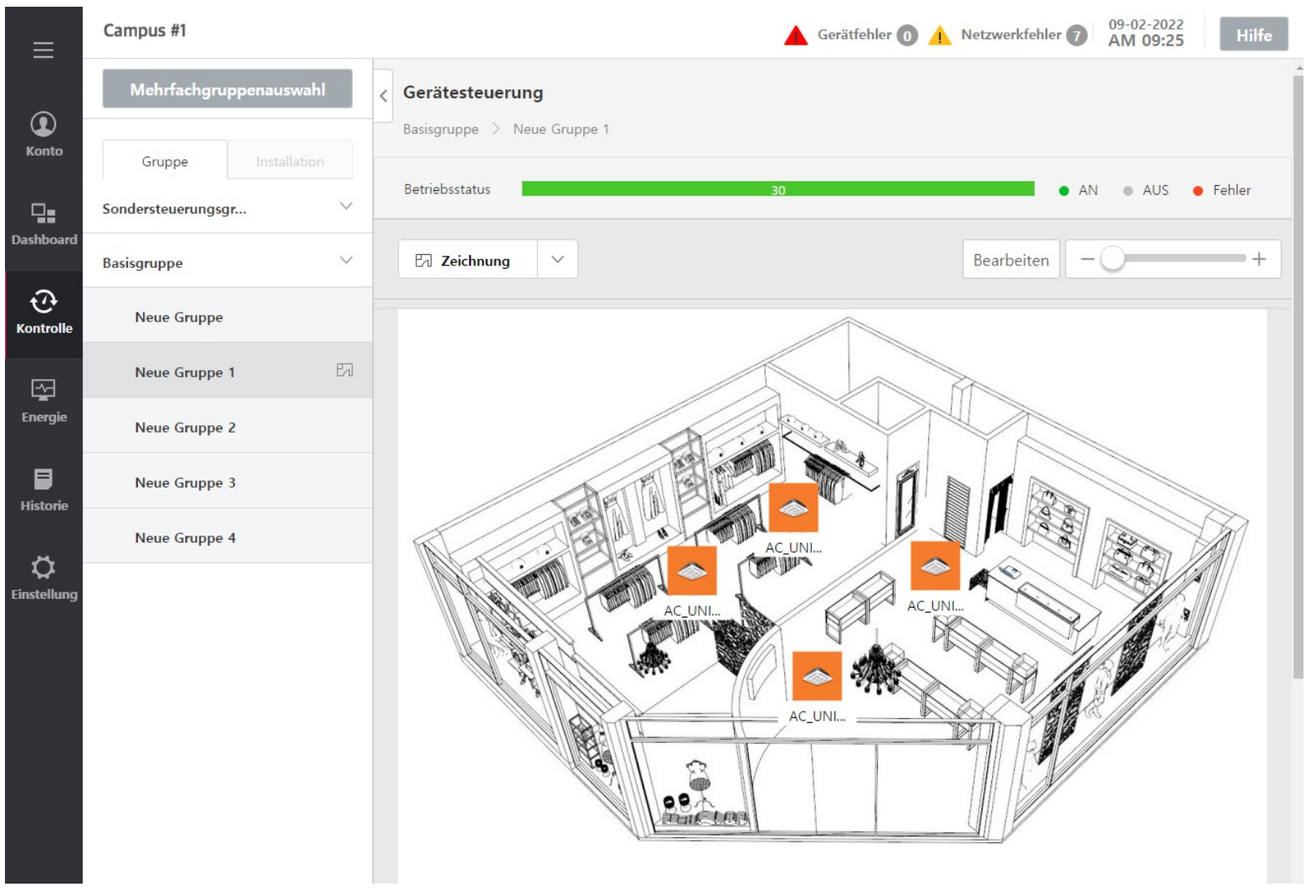
4. Klicken Sie die **[Bearbeiten]** Taste an.



5. Wenn Sie die Zeichnung hinzufügen oder ändern, klicken Sie die **[Zeichnung hinzufügen]** Taste an.

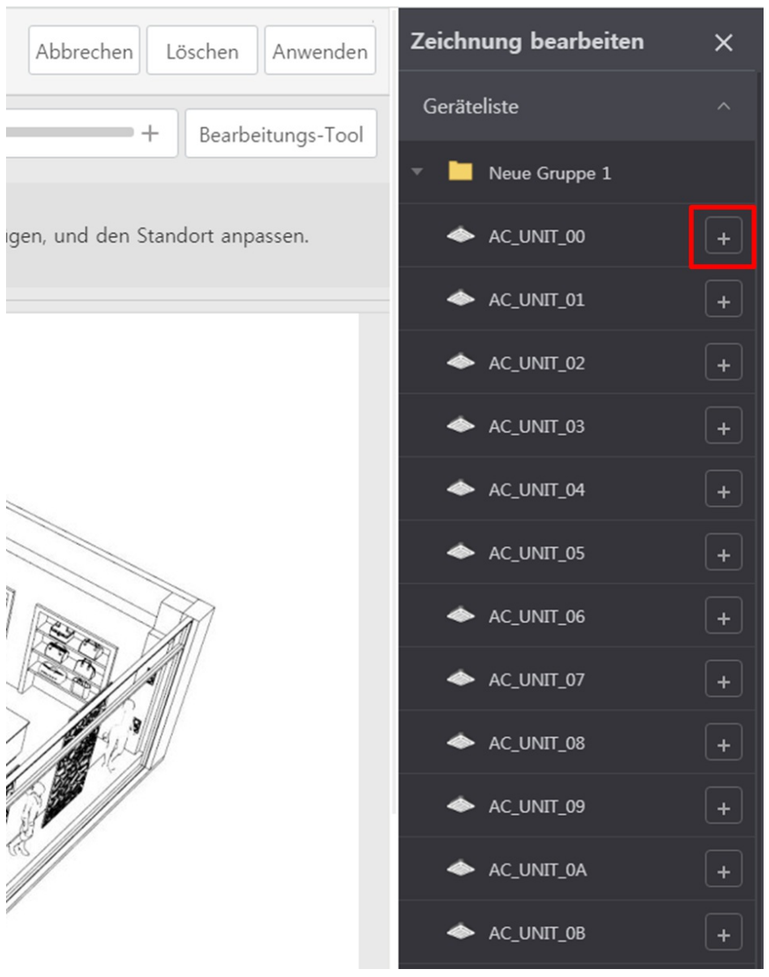


6. Wird das Datei laden-Fenster angezeigt, wählen Sie die Zeichnungsdatei für das Hinzufügen aus und klicken Sie die **[Öffnen]** Taste an.
   - Die ausgewählte Zeichnung wird auf der Zeichnung bearbeiten-Bildschirm angezeigt.

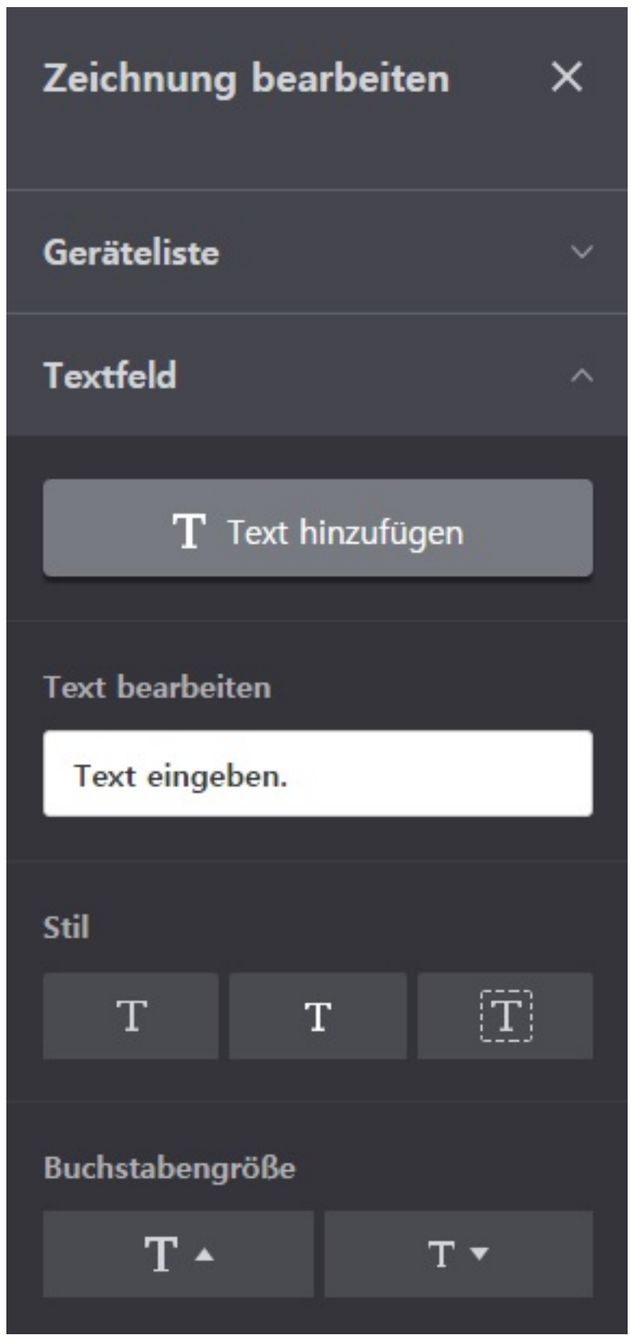


7. Um der Zeichnung ein Gerät hinzuzufügen, wählen Sie das gewünschte Gerät in der Geräteliste auf der rechten Seite der Zeichnung bearbeiten-Fensters aus und klicken

Sie die **[+]** Taste an. Das Gerät wird im Zeichnungsabschnitt hinzugefügt.

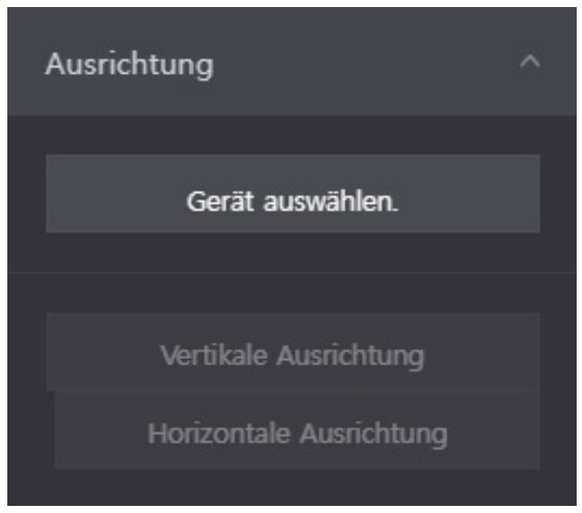


8. UM den Text in der Zeichnung hinzuzufügen oder zu ändern, benutzen Sie das Text-Feld.



Kategorie	Beschreibung
Text hinzufügen	Text-Feld im Zeichnungsabschnitt hinzufügen
Text bearbeiten	Text im Text-Feld bearbeiten
Stil	: Normal er Buchstabe, fett, schräg, unterstreichen • : Im normalen Buchstaben anzeigen • : Im Fettbuchstaben anzeigen • : Im Schrägbuchstaben anzeigen • : Mit unterstrichenem Buchstaben anzeigen : Buchstabenfarbe ändern : Buchstabenhintergrundfarbe ändern
Buchstabengröße	: Größerer Buchstabe : Kleinerer Buchstabe

9. Um die Gerätesymbole auf dem Diagramm anzuordnen, den Ausrichtungs-Kasten benutzen.



Kategorie	Beschreibung
Gerät auswählen	Ein Gerät auswählen, um es im Diagramm einzuordnen.
Ausrichtung	Vertikale Ausrichtung : Die ausgewählten Gerätesymbole vertikal ausrichten. Horizontale Ausrichtung : Die ausgewählten Gerätesymbole horizontal ausrichten.

10. Wird die Einstellung abgeschlossen, klicken Sie die **[Anwenden]** Taste an.

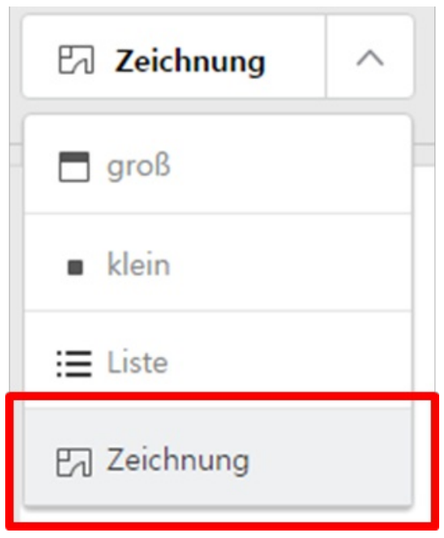
Hinweis

- Ein Teil des Zeichnungsbildes mit einer vertikalen Auflösung von 1000px oder mehr wird möglicherweise nicht angezeigt, und verwenden Sie bitte ein Bild mit einer geeigneten Auflösung, welche der Bildschirmauflösung entspricht.
  In Umgebungen mit einer Bildschirmauflösung von 1920x1080 wird ein Bild mit 1478x1000 oder weniger empfohlen.
- Datei Format : jpg, png, bmp / Maximale Größe : 10MB
- Während des Hinzufügens/Bearbeitens von Text dürfen Sonderzeichen (^','|₩) nicht verwendet werden.
- Sie können bis zu 40 Zeichen eingeben.

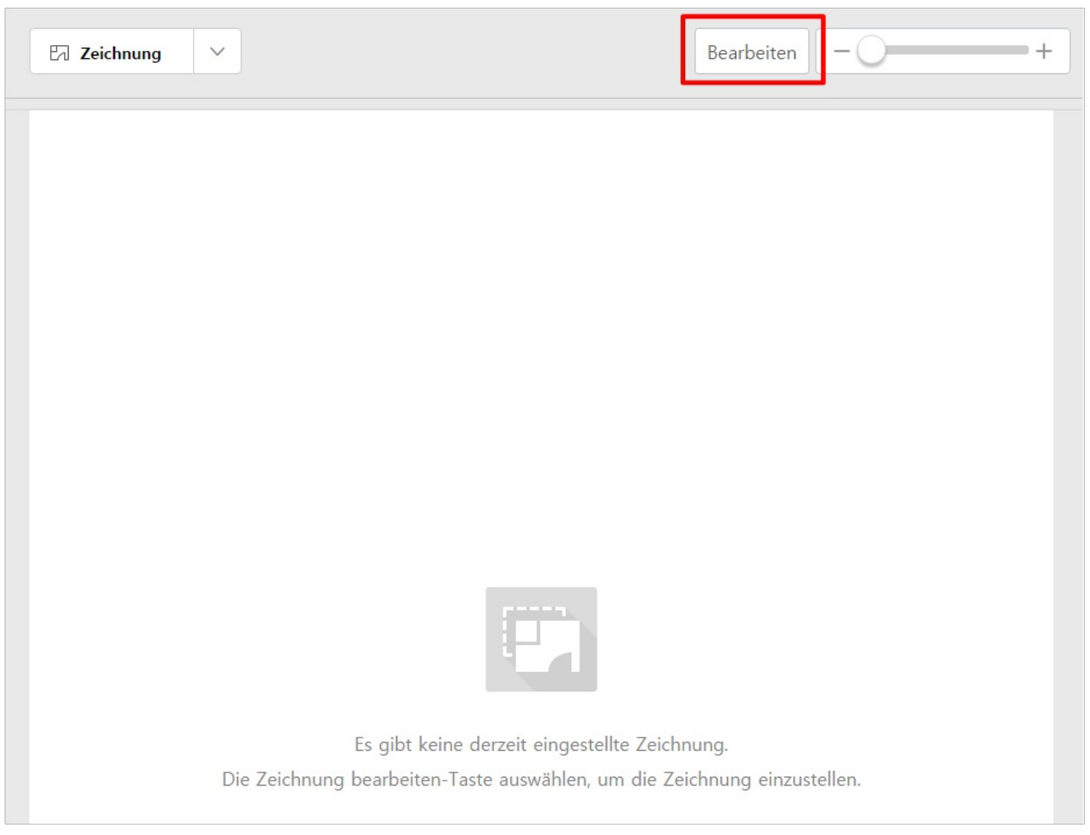
Zeichnung löschen

Sie können die hinzugefügte Zeichnung löschen.

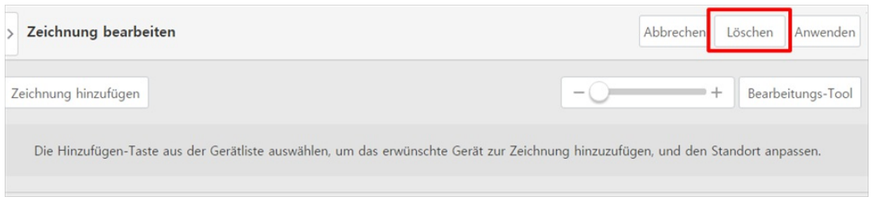
1. In der linksseitigen Menütaste klicken Sie das **[Steuerung]** > **[Gerätesteuerung]** Menü an.
2. Klicken Sie im Registerkartenbereich der Gerätegruppe auf den **[Gruppe]**-Tabulator.
3. In der Ansichtsmethode klicken Sie **[Zeichnung ansehen]** an.



4. Klicken Sie die **[Bearbeiten]** Taste an.
   - Der Zeichnung bearbeiten-Bildschirm wird angezeigt.



5. Klicken Sie die **[Löschen]** Taste oben an.
   - Die Zeichnung wird gelöscht.



Zeitplansteuerung

Der Zeitplan ist die Funktion für die Bestimmung des Gerätebetriebs im Voraus und lässt das Gerät den Betrieb zu einer vorbestimmten Zeit durchführen. Wenn Sie diese Funktion benutzen, können Sie den Gerätebetrieb innerhalb der Zeitgrenze für einen ausgezeichneten Energiespareffekt effizient verwalten.

[Zeitplan]

- Gesamten Zeitplan ansehen
- Zeitplan hinzufügen
- Zeitplan löschen
- Zeitplan kopieren
- Zeitplan bearbeiten

[Ausnahmedatum]

- Ausnahmedatum laden
- Ausnahmedatum hinzufügen
- Ausnahmedatum löschen

Hinweis

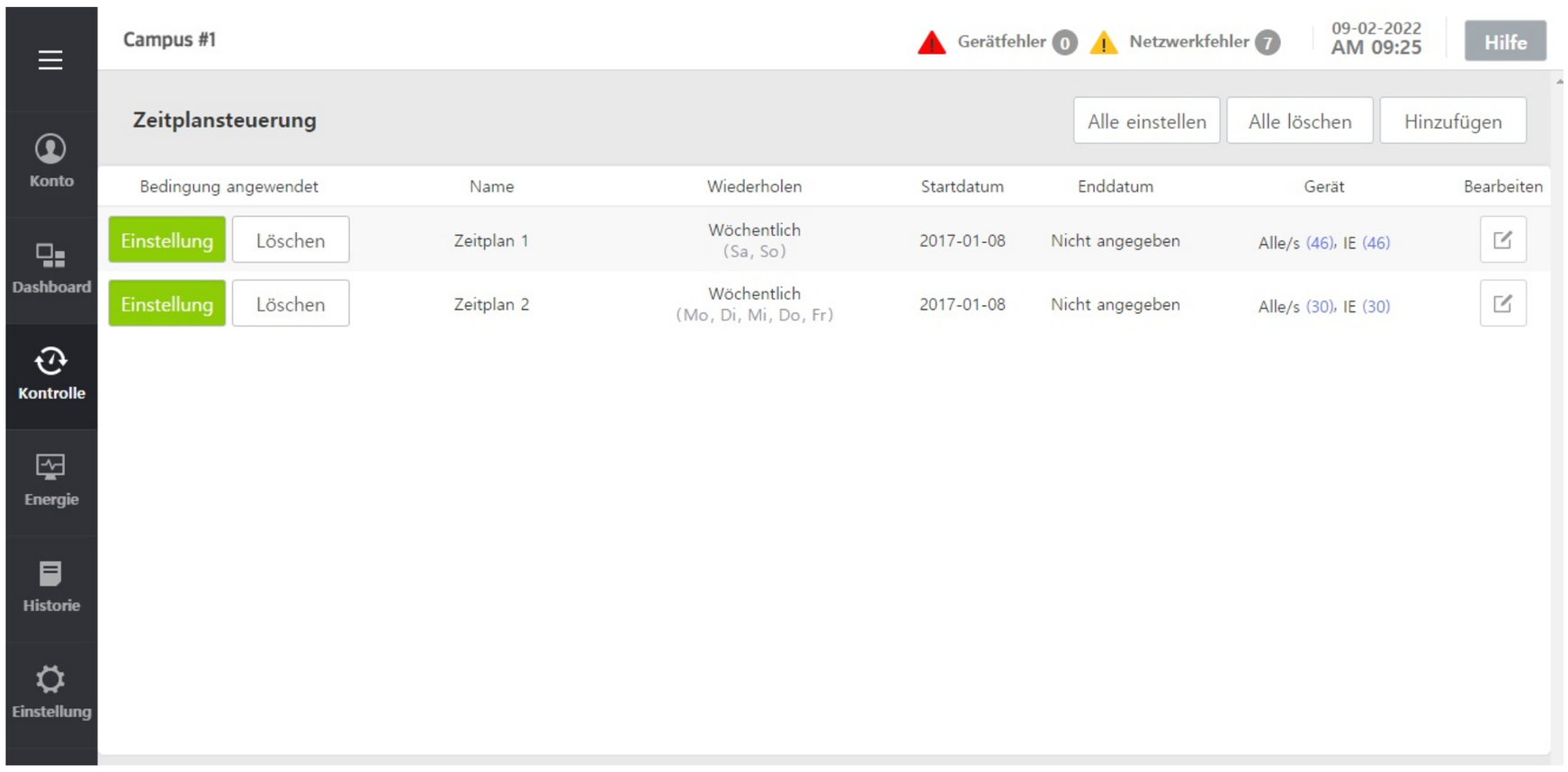
Empfohlene Spezifikation

- Zeitplan: Die Anzahl der im gesamten Zeitplan enthaltenen Ereignisse beträgt 50
- Sollte die empfohlene Spezifikation überschritten werden, kann dies zu einer Leistungsbeeinträchtigung führen.

Gesamten Zeitplan ansehen

Sie können die Zeitplanliste im festgelegten Zeitraum betrachten.

Sie können prüfen, ob der eingestellte Zeitplan angewandt wird, den Namen, ob er wiederholt werden soll, das Startdatum, Enddatum und die Geräteliste, und den gewünschten Zeitplan direkt **[Einstellung]** oder **[Löschen]**.



Zeitplan hinzufügen

Sie können die Zeitplankategorie hinzufügen.

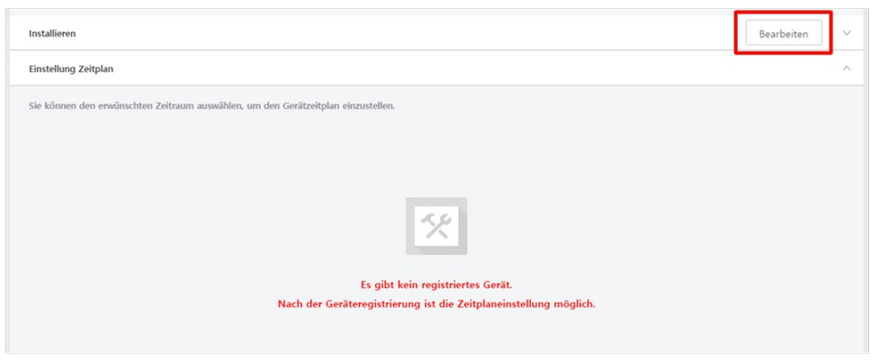
1. In der linken Menütaste klicken Sie das **[Steuerung]** > **[Zeitplansteuerung]** Menü an.
   - Der Zeitplansteuerungsbildschirm wird angezeigt.
2. In der Zeitplanliste klicken Sie die **[Hinzufügen]** Taste an.
   - Der Zeitplan hinzufügen-Bildschirm wird angezeigt.
3. Im Zeitplannamenseingabe-Feld tragen Sie den gewünschten Zeitplannamen ein.
4. Stellen Sie ein, ob der Zeitplan wiederholt werden soll.

Kategorie	Beschreibung
Einmal	Der entsprechende Zeitplan wird nur an dem einen in **[Periode]** bestimmten Tag angewandt
Wochentagsauswahl	Wählen Sie den gewünschten Wochentag, an dem der Zeitplan nur am entsprechenden Wochentag vom Startdatum bis zum Enddatum angewandt werden soll.

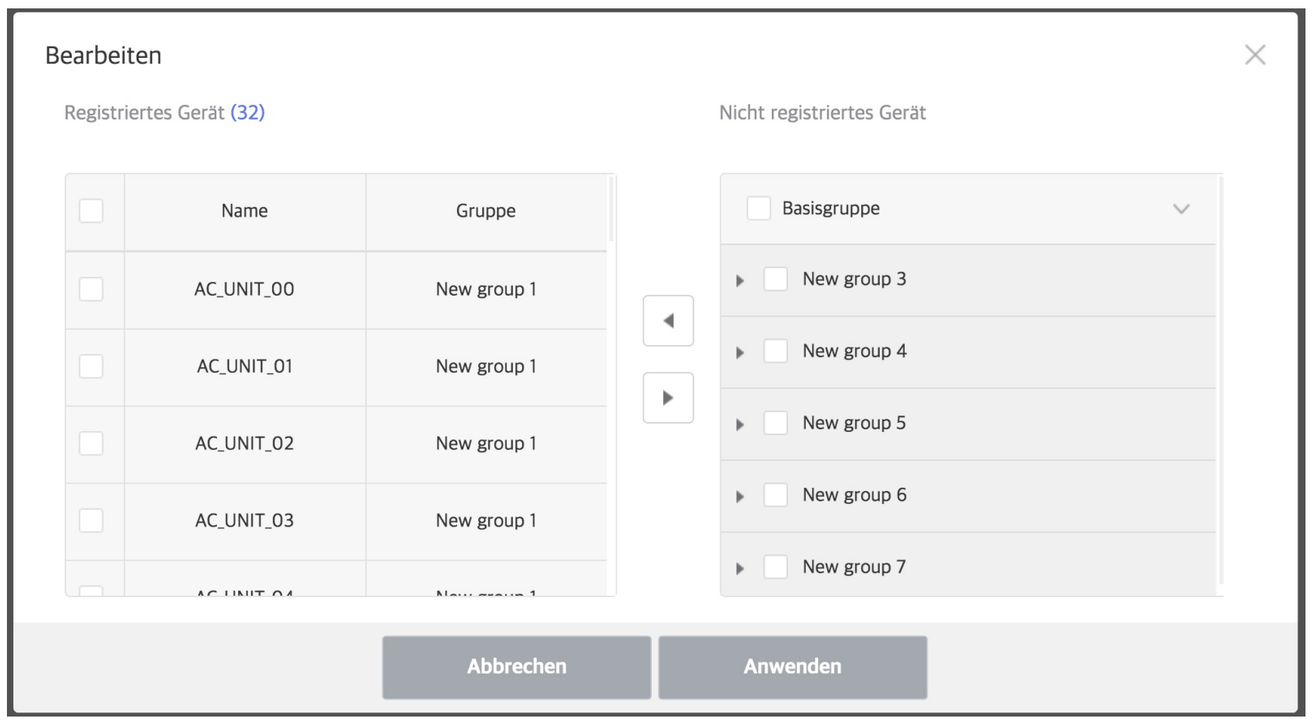
5. Gewünschten Zeitraum einstellen.
   - Falls die Wiederholung als **[Einmal]** ausgewählt wird, dürfen Sie nur 1 Tag auswählen
   - Wird die Wiederholung als **[Auswahl Wochentag]** ausgewählt, müssen Sie Start- und Enddatum auswählen

Kategorie	Beschreibung
Startdatum	• Wählen Sie im Mini-Kalender das gewünschte Startdatum aus • Das Anfangsstartdatum wird als heutiges Datum ausgewählt
Enddatum	• Wählen Sie im Mini-Kalender das gewünschte Enddatum aus • Sie können das Enddatum nicht vor dem Startdatum einstellen
Kein Enddatum angegeben	• Zeitplan wiederholt anwenden, ohne das Enddatum zu bestimmen

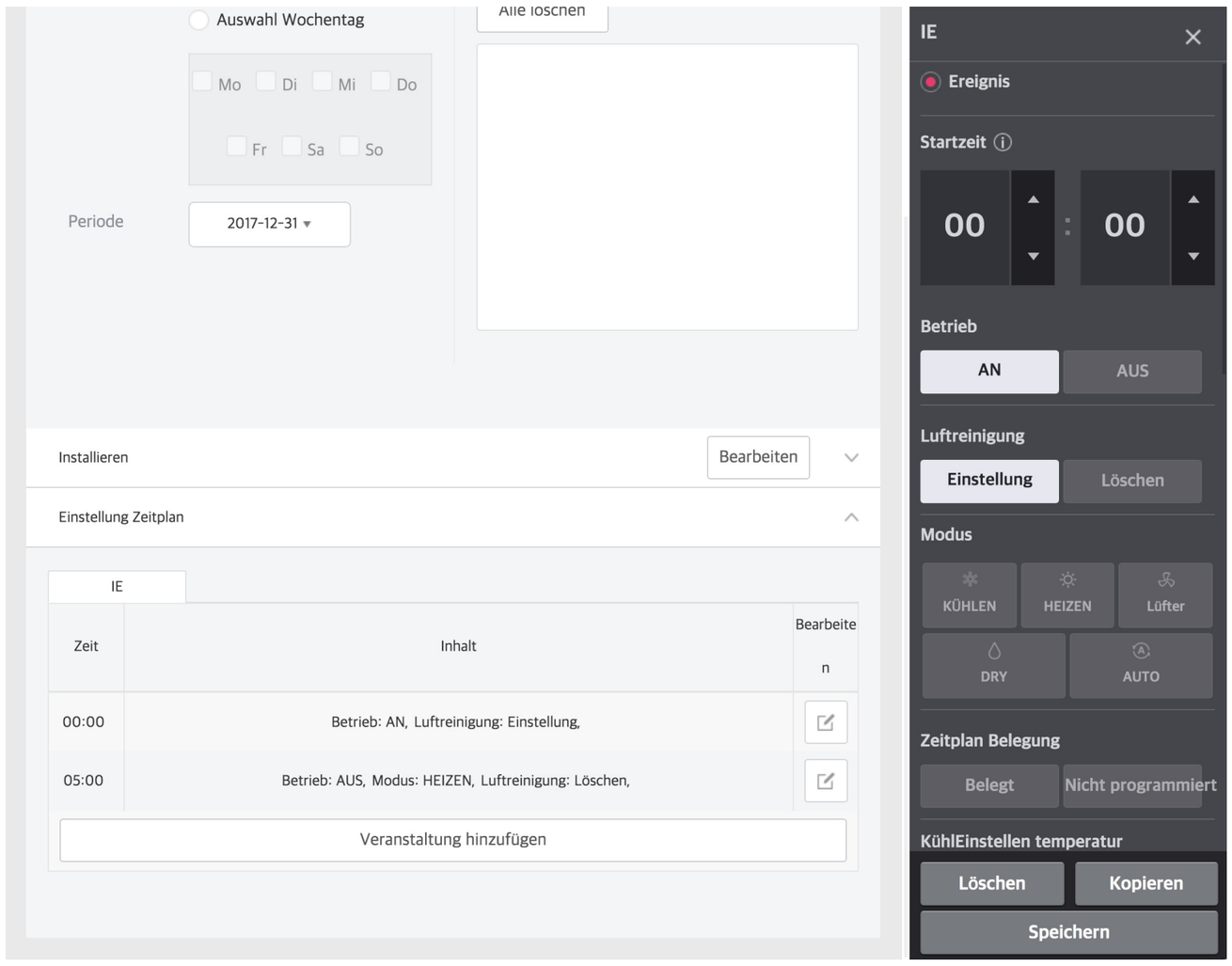
6. UM das eingestellte Ausnahmedatum anzuwenden, klicken Sie die **[Laden]** Taste an.
   - Das in der von **[Einstellung]-[Systemeinstellung] Zeitplanausnahmendatumseinstellung** eingestellte Ausnahmedatum wird aktualisiert und angezeigt.
7. Um das neue Ausnahmedatum anzuwenden, klicken Sie die **[Ausnahmedatum hinzufügen]** Taste an, um den Ausnahmedatumsnamen einzustellen und das Datum hinzuzufügen.
8. Im Geräteinstellungsabschnitt klicken Sie die **[Bearbeiten]** Taste an.
   - Das Einheit editieren-Fenster wird angezeigt.



9. In der Liste der nichtregistrierten Geräte klicken Sie das Prüfkästchen des zu registrierenden Geräts und klicken Sie die **[◀]** Taste an.
   - Um mehrere Gruppen aus einmal zu registrieren, klicken Sie die Prüffelder der zu registrierenden Gruppen an und klicken Sie die **[◀]** Taste.
   - Die ausgewählten Geräte werden in der Liste der registrierten Geräte hinzugefügt.



10. Wird die Gerätregistrierung abgeschlossen, klicken Sie die **[Anwenden]** Taste an.
11. Um ein geplantes Ereignis hinzuzufügen, wählen Sie in **Einstellung Zeitplan** den Gerätetyp-Tabulator aus und klicken Sie auf **[Veranstaltung hinzufügen]**-Taste oder die Bearbeiten-Taste, um den Steuerungsstatus des Geräts in der rechten Seite des Steuerungsbereichs festzulegen.

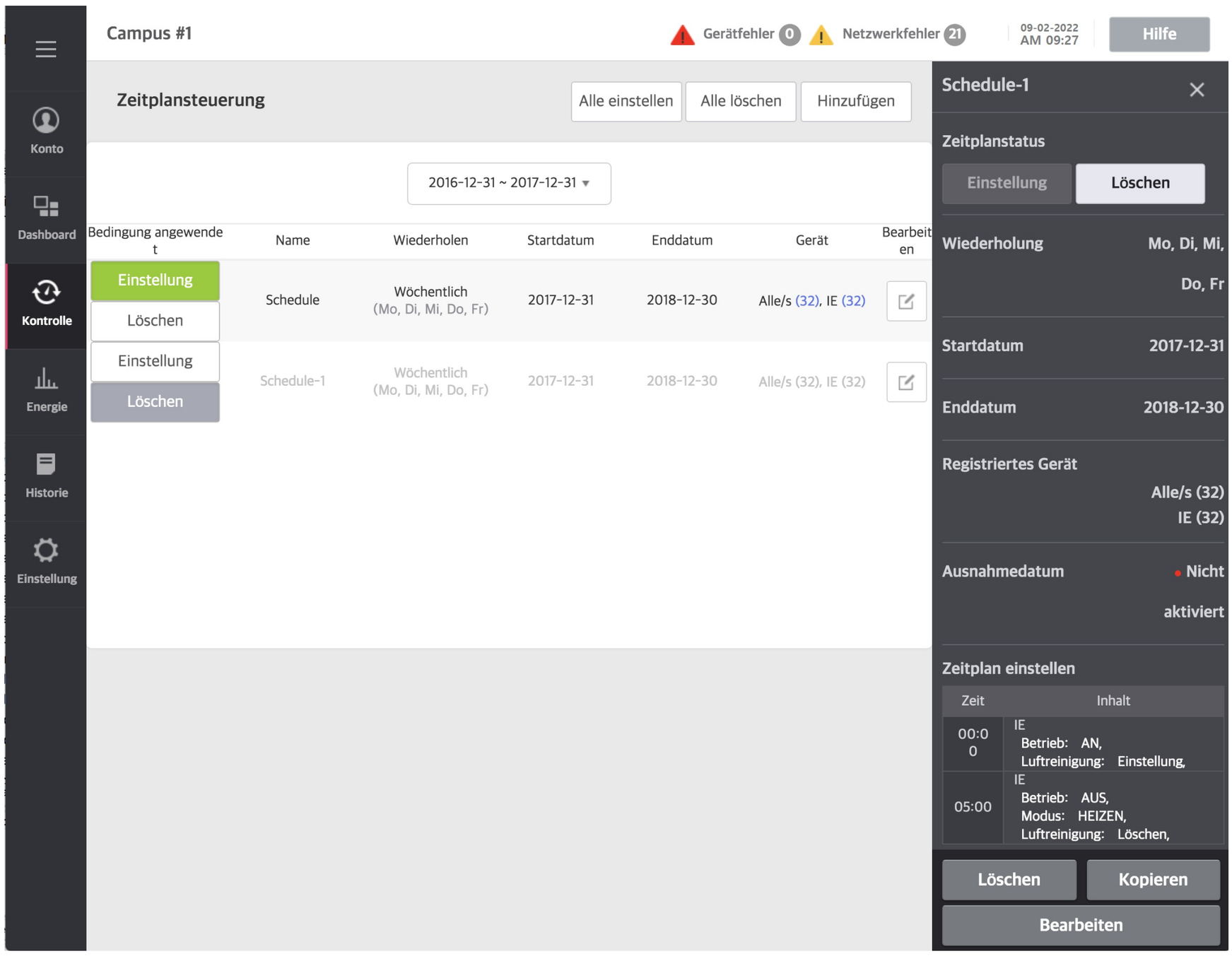


12. Wird die Steuerungseinstellung abgeschlossen, klicken Sie die **[Speichern]** Taste an.
13. Werden alle Einstellungen abgeschlossen, klicken Sie die **[Anwenden]** Taste an.

Zeitplan löschen

Sie können einen bereits registrierten Zeitplan löschen.

1. In der linken Menütaste klicken Sie das **[Steuerung] > [Zeitplansteuerung]** Menü an.
   - Der Zeitplansteuerungsbildschirm wird angezeigt.
2. In der Zeitplanliste klicken Sie die Bearbeiten-Taste des zu löschenden Zeitplans an.

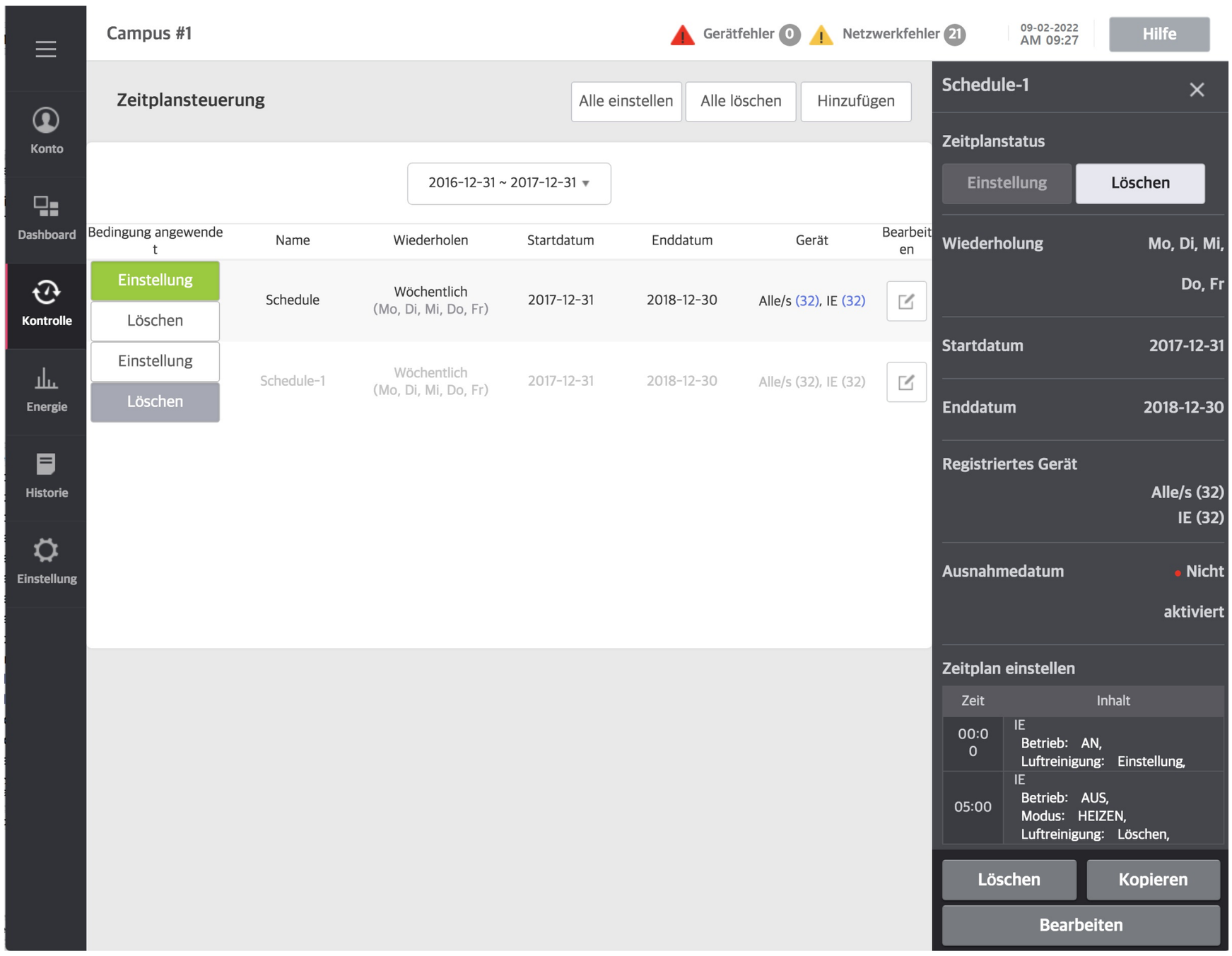


3. Im rechtsseitigen Fenster bearbeiten-Bildschirm klicken Sie die **[Löschen]** Taste an.
4. Wird ein Mitteilungs-Popup-Fenster erstellt, klicken Sie die **[Prüfen]** Taste an.

Zeitplan kopieren

Sie können einen registrierten Zeitplan kopieren und benutzen.

1. In der linken Menütaste klicken Sie das **[Steuerung] > [Zeitplansteuerung]** Menü an.
   - Der Zeitplansteuerungsbildschirm wird angezeigt.
2. Klicken Sie in der Zeitplanliste auf die Bearbeiten-Taste des zu kopierenden Zeitplans.

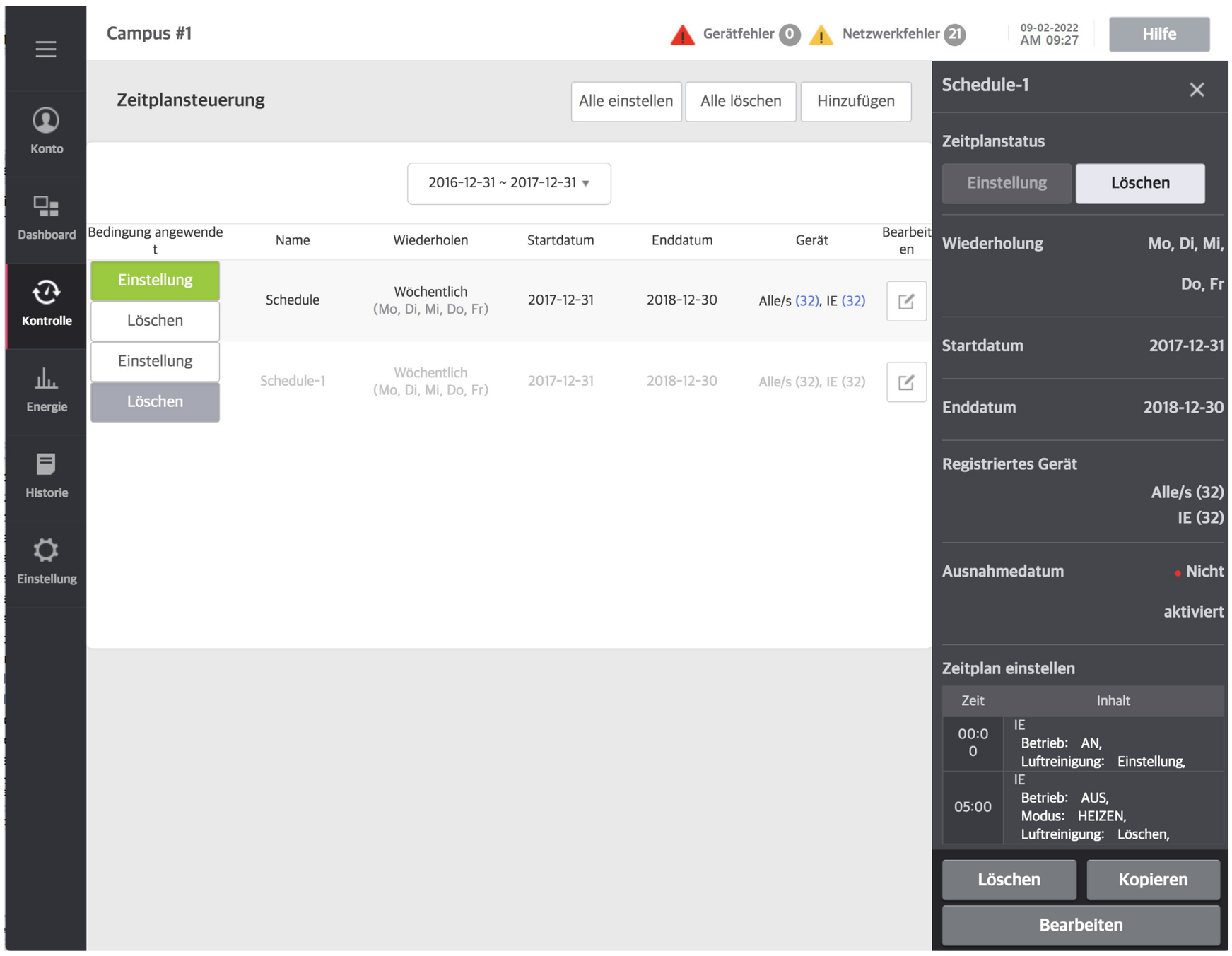


3. Im rechtseitigen Fenster bearbeiten-Bildschirm klicken Sie die **[Kopieren]** Taste.
4. Wird ein Mitteilungs-Popup-Fenster erstellt, klicken Sie die **[Prüfen]** Taste an.

Zeitplan bearbeiten

Sie können die eingestellten Inhalte eines bereits registrierten Zeitplans ändern.

1. In der linken Menütaste klicken Sie das **[Steuerung] > [Zeitplansteuerung]** Menü an.
   - Der Zeitplansteuerungsbildschirm wird angezeigt.
2. In der Zeitplanliste klicken Sie die Bearbeiten-Taste der zu bearbeitenden Zeitplans an.

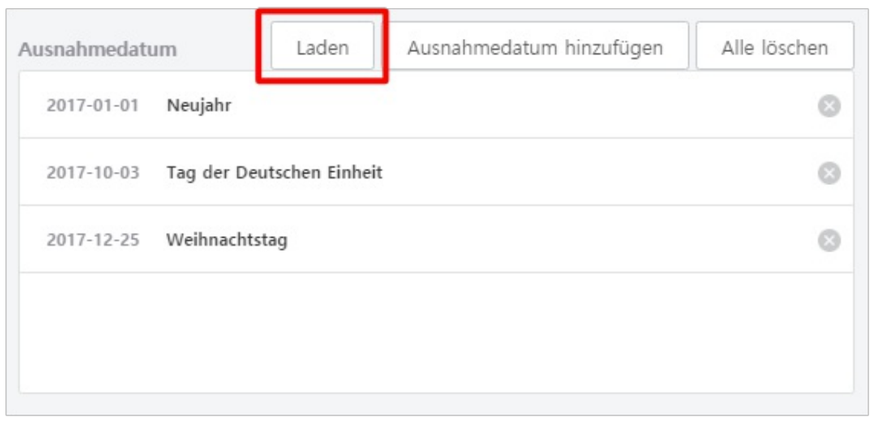


3. Im rechtseitigen Fenster bearbeiten-Bildschirm klicken Sie die **[Bearbeiten]** Taste an.
4. Bearbeiten Sie die Zeitplaninhalte.
   - Um die Detailinhalte zu prüfen, prüfen Sie die 'Zeitplan hinzufügen'-Kategorie.

Ausnahmedatum laden

Sie können ein bereits eingestelltes Ausnahmedatum laden.

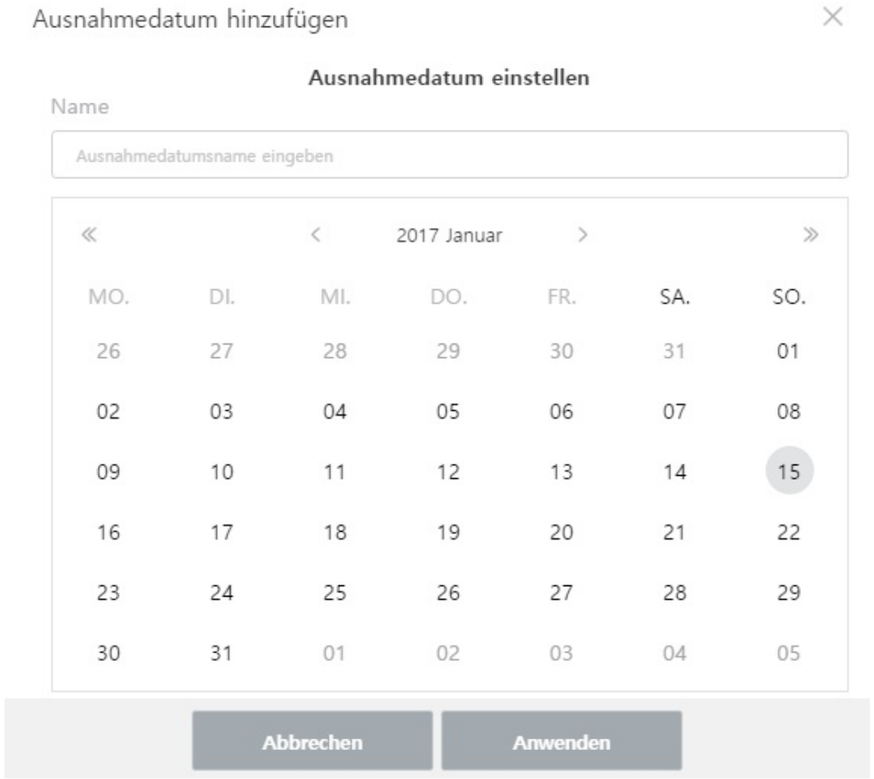
1. In der linken Menütaste klicken Sie das **[Steuerung]** > **[Zeitplansteuerung]** Menü an.
   - Der Zeitplansteuerungsbildschirm wird angezeigt.
2. In der Zeitplanliste klicken Sie die **[Hinzufügen]** Taste an.
   - Der Zeitplan hinzufügen-Bildschirm wird angezeigt.
3. In der Ausnahmedatumstaste klicken Sie die **[Laden]** Taste an
   - Das in der von **[Einstellung]-[Systemeinstellung] Zeitplanausnahmendatumseinstellung** eingestellte Ausnahmedatum wird aktualisiert und angezeigt.



Ausnahmedatum hinzufügen

Sie können ein neues Ausnahmedatum hinzufügen.

1. In der linken Menütaste klicken Sie das **[Steuerung]** > **[Zeitplansteuerung]** Menü an.
   - Der Zeitplansteuerungsbildschirm wird angezeigt.
2. In der Zeitplanliste klicken Sie die **[Hinzufügen]** Taste an.
   - Der Zeitplan hinzufügen-Bildschirm wird angezeigt.
3. In der Ausnahmedatumstaste klicken Sie die **[Ausnahmedatum hinzufügen]** Taste an
   - Der Ausnahmedatum hinzufügen-Bildschirm wird angezeigt.

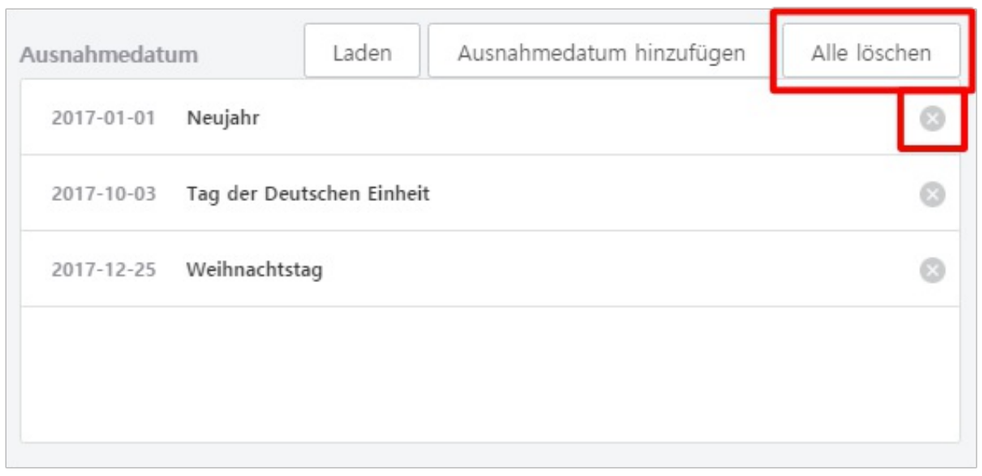


4. Tragen Sie den gewünschten Ausnahmedatumsnamen ein.
5. Wählen Sie das einzustellende Ausnahmedatum aus.
6. Wird die Auswahl abgeschlossen, klicken Sie die **[Anwenden]** Taste.

Ausnahmedatum löschen

Sie können ein bereits registriertes Ausnahmedatum löschen.

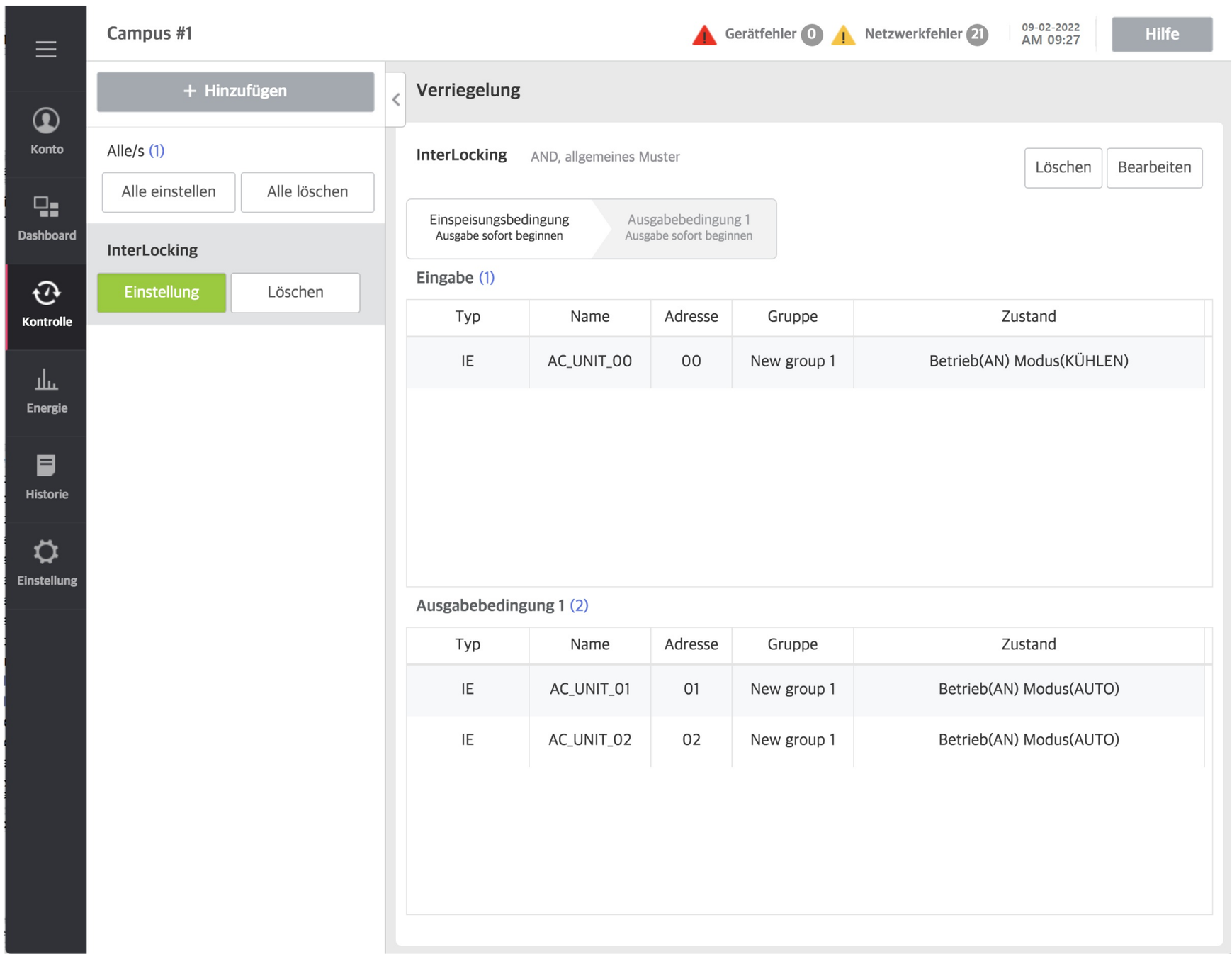
1. In der linken Menütaste klicken Sie das **[Steuerung]** > **[Zeitplansteuerung]** Menü an.
   - Der Zeitplansteuerungsbildschirm wird angezeigt.
2. Im Bearbeiten-Bildschirm klicken Sie die **[X]** Taste, um das Ausnahmedatum zu löschen.
   - Um die gesamte Kategorie zu löschen, klicken Sie die **[Alle löschen]** Taste.



Verriegelung

Die Verriegelung ist die Funktion zum Verknüpfen einer oder mehrerer Geräte und zum Steuern des Ausgabebetriebs, wenn die eingetragene Bedingung erfüllt wird. Für die Verriegelung müssen Sie die Geräte in einer Gruppe um eine gemeinsame Schnittstelle gruppieren und die Steuerungseinstellung anwenden. Diese beschreibt die Methode zum Erstellen und Verwalten der Gruppe und die Methode der Verriegelung.

1. In der linken Menütaste klicken Sie das **[Steuerung] > [Verriegelung]** Menü an.
   - Der Verriegelungsbildschirm wird angezeigt.



2. In der Gruppenliste wählen Sie die Gruppe aus, um die Einstellung zu prüfen.
   - Der entsprechende Gruppeneinstellungsstatus wird auf dem Bildschirm angezeigt.
3. In der Gruppenliste, wenn Sie die **[Einstellung]/[Löschen]** Taste anklicken, können Sie den Verriegelungnbetrieb einstellen.
4. Um alle registrierten Gruppen zu starten, klicken Sie die **[Alle einstellen]** Taste an, und um alle zu AUSpen, klicken Sie die **[Alle löschen]** Taste an.

Hinweis

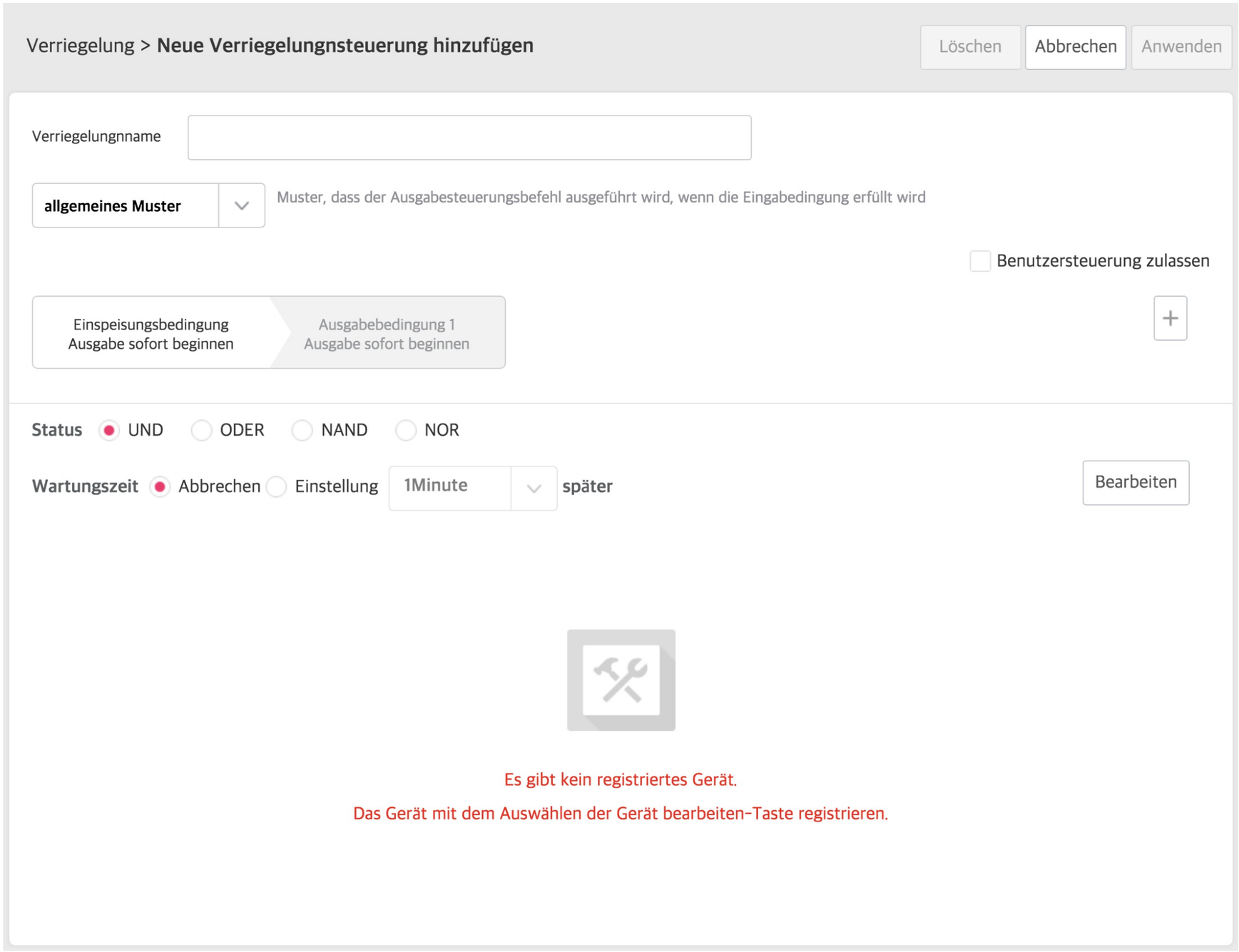
Empfohlene Spezifikation

- **Steuerung der Geräteschnittstelle: Die Anzahl der Muster beträgt 20, die Anzahl der Eingabegeräte 500 und die Anzahl der Ausgabegeräte 1000**
- **Sollte die empfohlene Spezifikation überschritten werden, kann dies zu einer Leistungsbeeinträchtigung führen.**

Verriegelung hinzufügen/bearbeiten

Sie können eine neue Verriegelung hinzufügen und bearbeiten.

1. In der linken Menütaste klicken Sie das **[Steuerung] > [Verriegelung]** Menü an.
   - Der Verriegelungsbildschirm wird angezeigt.
2. Klicken Sie die **[+ Hinzufügen]** Taste an.
   - Der Verriegelungsbildschirm wird angezeigt.



3. Im Verriegelungnnamenseingabefeld geben Sie den gewünschten Verriegelungnnamen ein.

4. Wählen Sie den Vorgabetyp aus.

Kategorie	Beschreibung
Allgemeine Vorgabe	• Vorgabe, dass der Ausgabesteuerungsbefehl ausgeführt wird, wenn die eingetragene Bedingung erfüllt wird
Vorgabe kopieren	• Vorgabe, dass das Ausgabegerät dem eingetragenen Gerätestatus befolgt (Einige Steuerfunktionen werden möglicherweise nicht kopiert.) • Es kann nur 1 Gerät für die eingetragene Bedingung hinzugefügt werden und nur ein Gerät mit den gleichen Eigenschaften wie das hinzugefügte eingetragene Gerät wird beim Ausgabegerät registriert.
Notfallvorgabe	• Vorgabe, dass eine Notfallsituation erkannt wird, wenn die eingetragene Bedingung erfüllt wird • Wird die eingetragene Bedingung erfüllt, wird der Alarm per Bildschirm und Ton mitgeteilt.
1:1-Muster	• Muster zur bequemen Registrierung vieler Geräte, falls das Eingabegerät mit dem Ausgabegerät identisch ist

5. Wählen Sie aus, ob Sie die Benutzersteuerung zulassen. (Es sind nur allgemeine Muster möglich)
   - Wird das Prüfkästchen ausgewählt, obwohl der Status durch die Verriegelung geändert wird, kann der Benutzer den Status der Geräte ändern.

6. Legen Sie die Bedingung für die Geräteschnittstelle fest. Sobald Sie die Taste **[+]** drücken, können Sie bis zu 3 Ausgabebedingungen hinzufügen.
   - Es erscheint nur, wenn die Eingabebedingungstaste ausgewählt wird.

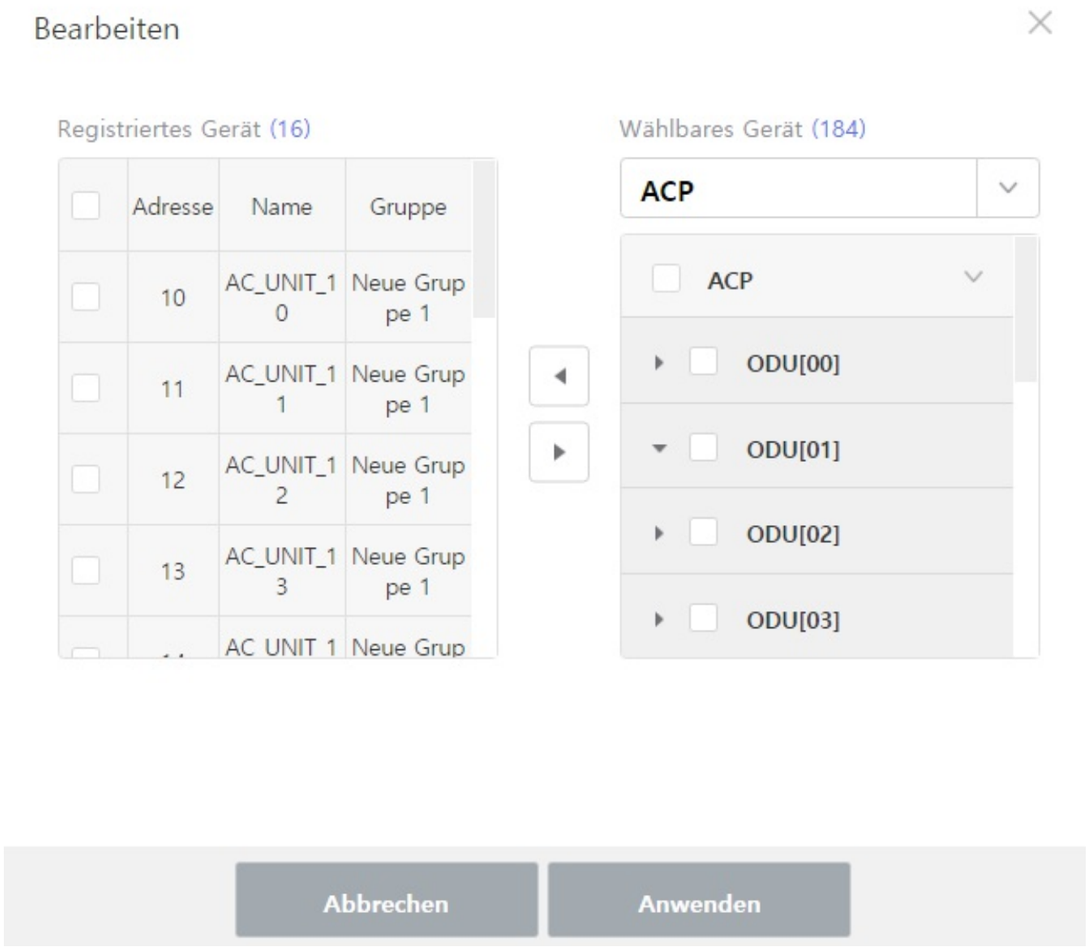
Kategorie	Beschreibung
Status	• UND: Alle Gerätebedingungen stimmen überein • ODER: Eine oder mehrere Gerätebedingungen stimmen überein • NAND: Eine oder mehrere Gerätebedingungen stimmen nicht überein • NOR: keine Bedingung stimmt überein
Beibehaltungszeitraum	Falls es festgelegt wird, während alle Eingabebedingungen erfüllt sind, steuert es die Ausgabebedingung nach dem Beibehaltungszeitraum Drücken Sie die Taste **[▲]/[▼]**, um den Beibehaltungszeitraum festzulegen

   - Es erscheint nur, wenn die Ausgabebedingungstaste ausgewählt wird.

Kategorie	Beschreibung
E-Mail senden	Sollte das Kontrollkästchen aktiviert und das entsprechende Ereignis in ACP ausgeführt werden, wird ein Hinweis, dass das Ereignis aufgetreten ist an die E-Mail gesendet, die unter Einstellung > Administratoreinstellungen > Empfangen der E-Mail-Adresse festgelegt wurde • Das ACP sollte ans Internetnetzwerk, das die E-Mail verschicken kann, angeschlossen sein.
Verzögerung	Falls es festgelegt wird, und die Eingabebedingung erfüllt ist, wird die Ausgabebedingung nach Ablauf des registrierten Verzögerungszeitraums gesteuert Drücken Sie die Taste **[▲]/[▼]**, um den Verzögerungszeitraum festzulegen • Falls die Eingangsbedingung erfüllt ist, wird die Ausgangsbedingung nach Ablauf des Verzögerungszeitraums gesteuert, auch wenn sie während des Verzögerungszeitraums einen Status einnimmt, welcher die Eingangsbedingung nicht erfüllt.

7. UM ein Gerät hinzuzufügen, klicken Sie die **[Bearbeiten]** Taste an.
   - Das Einheit editieren-Popup-Fenster erscheint.

8. In der Liste der auswählbaren Geräte klicken Sie das Prüfkästchen des zu registrierenden Geräts und klicken die **[◀]** Taste an.
   - Um mehrere Gruppen aus einmal zu registrieren, klicken Sie die Prüffelder der zu registrierenden Gruppen an und klicken Sie die **[◀]** Taste.
   - Die ausgewählten Geräte werden in der Liste der registrierten Geräte hinzugefügt.



9. Wird die Gerätregistrierung abgeschlossen, klicken Sie die **[Anwenden]** Taste an.
10. Klicken Sie die **[Zustand]** Taste des registrierten Geräts an.



11. Im rechtseitigen Steuerungsfensterabschnitt stellen Sie den gewünschten Steuerungsstatus ein.
12. Wählen Sie den Tabulator für die Ausgabebedingung und führen Sie die Prozesse Nr. 7 bis 11 in der Reihenfolge aus.
13. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.

Hinweis

Bedeutung der Geruchszustände nach Intensität

- Referenzwert 2 : Schwach
- Referenzwert 4 : Mittelmäßig
- Referenzwert 5 : Stark
- Referenzwert 6 : Sehr stark

Verriegelung löschen

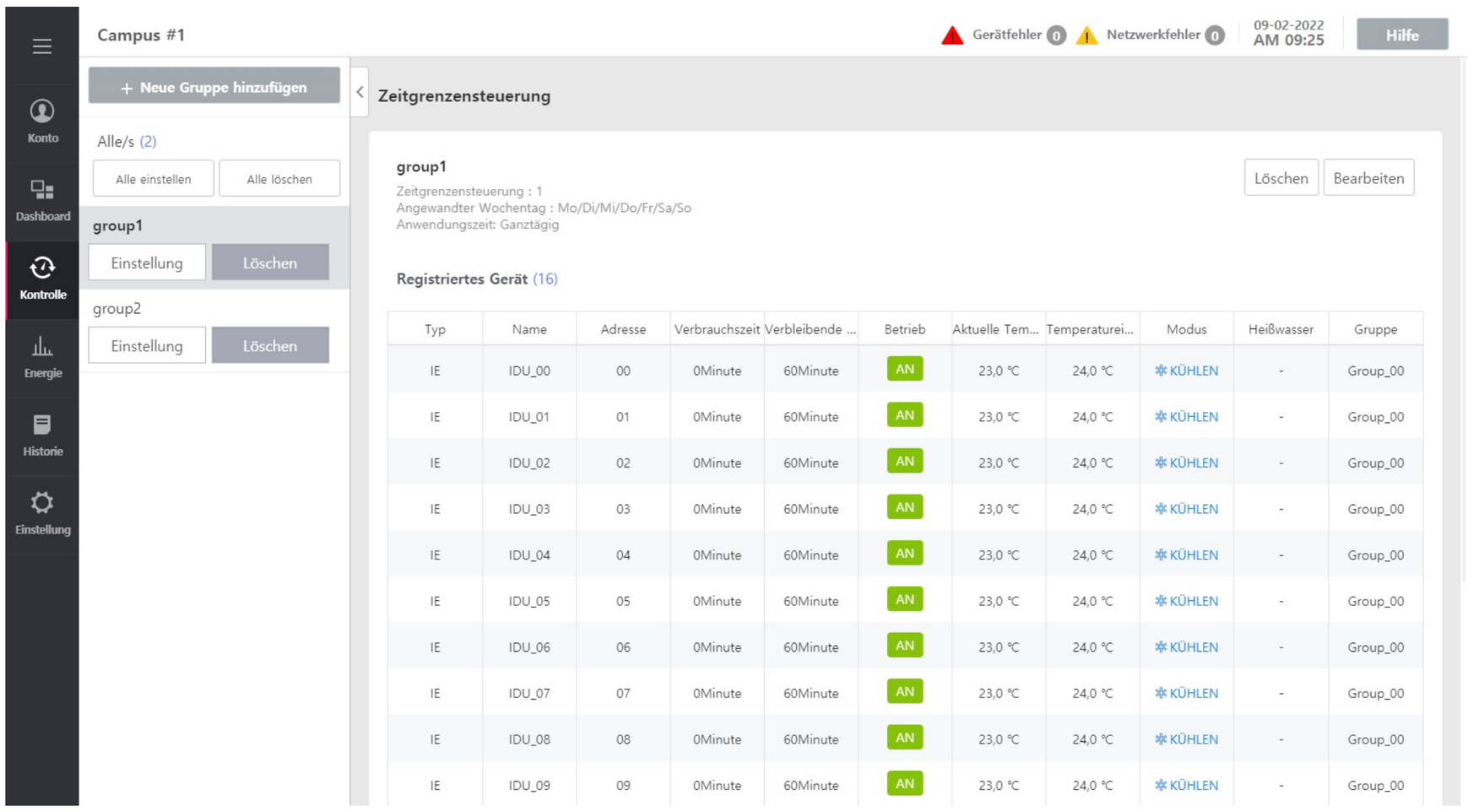
Sie können eine registrierte Verriegelung löschen.

1. In der linken Menütaste klicken Sie das **[Steuerung]** > **[Verriegelung]** Menü an.
   - Der Verriegelungsbildschirm wird angezeigt.
2. In der Verriegelungsliste wählen Sie die zu löschende Gruppe aus und klicken Sie die **[Löschen]** Taste an.
3. Wenn das Verriegelungnlöschungs-Popup-Fenster erscheint, klicken Sie die **[Ja]** Taste an.
   - In der Verriegelungsliste wird die ausgewählte Kategorie gelöscht.

Zeitgrenzensteuerung

Sie können das Gerät steuern, dass es für die eingestellte Zeit in Betrieb ist und automatisch AUS.

1. In der linken Menütaste klicken Sie das **[Steuerung] > [Zeitgrenzensteuerung]** Menü.
2. In der Gruppenliste wählen Sie die Gruppe aus, um die Einstellung zu prüfen.
   - Der entsprechende Gruppeneinstellungsstatus wird auf dem Bildschirm angezeigt.
3. In der Gruppenliste können Sie die **[Einstellung]/[Löschen]** Taste anklicken, um den Zeitgrenzenbetrieb einzustellen.
4. Um alle registrierten Gruppen zu starten, klicken Sie die **[Alle einstellen]** Taste an, und um alle zu AUSpen, klicken Sie die **[Alle löschen]** Taste an.



Hinweis

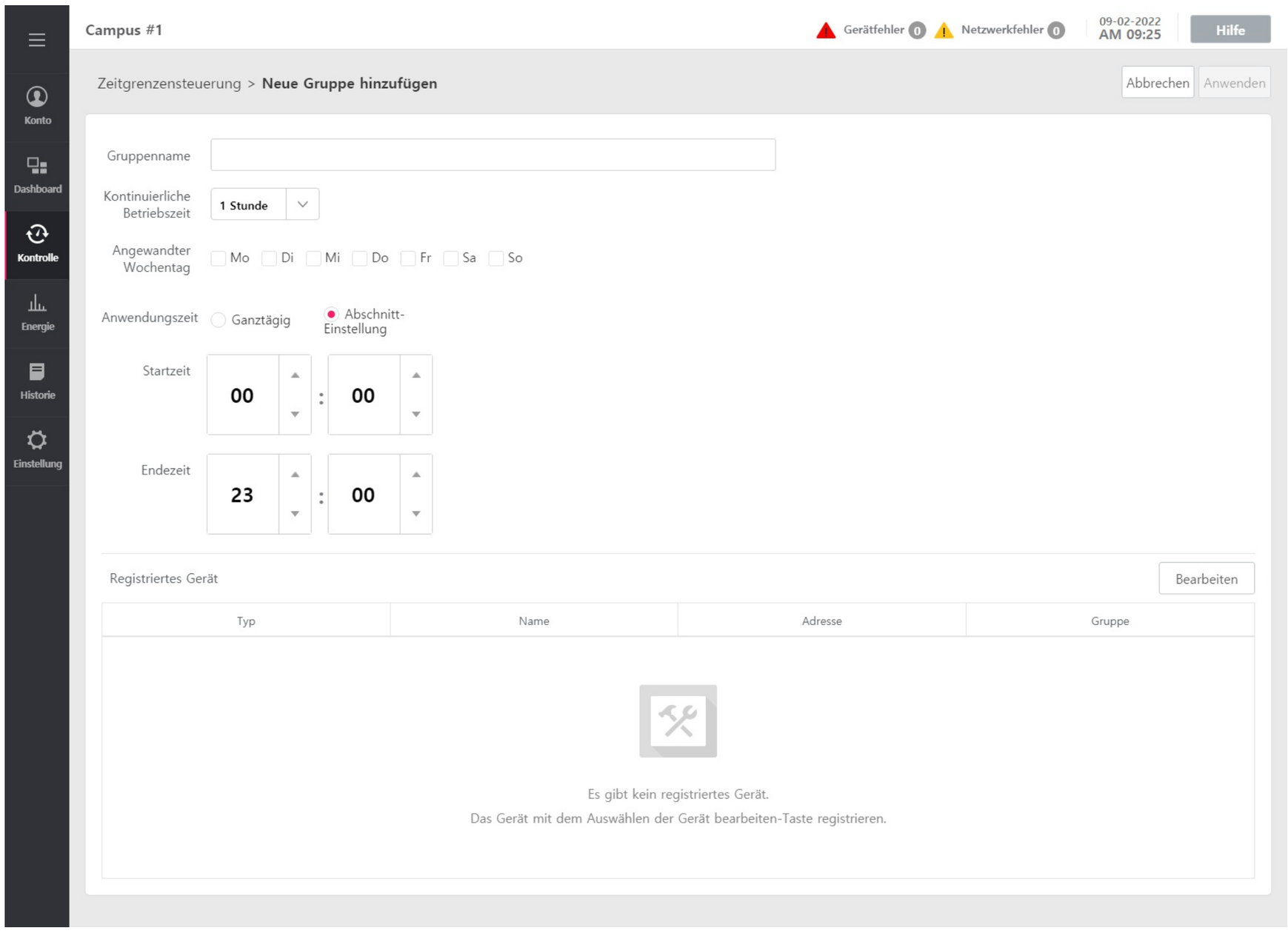
Empfohlene Spezifikation

- **Zeitlich begrenzter Betrieb: Die Anzahl der Gruppen beträgt 10**
- **Sollte die empfohlene Spezifikation überschritten werden, kann dies zu einer Leistungsbeeinträchtigung führen.**

Zeitgrenzensteuerungngruppe hinzufügen/bearbeiten

Sie können eine Zeitgrenzensteuerungngruppe hinzufügen und bearbeiten.

1. In der linken Menütaste klicken Sie das **[Steuerung] > [Zeitgrenzensteuerung]** Menü.
   - Das Zeitgrenzensteuerungn-Fenster wird angezeigt.
2. Klicken Sie die **[+ Neue Gruppe hinzufügen]** Taste an.
   - Der Neue Gruppe hinzufügen-Bildschirm wird angezeigt.
   - Während der Bearbeitung, wenn Sie die zu bearbeitende Gruppe auswählen und die **[Bearbeiten]** Taste anklicken, wird der folgende Bildschirm angezeigt.

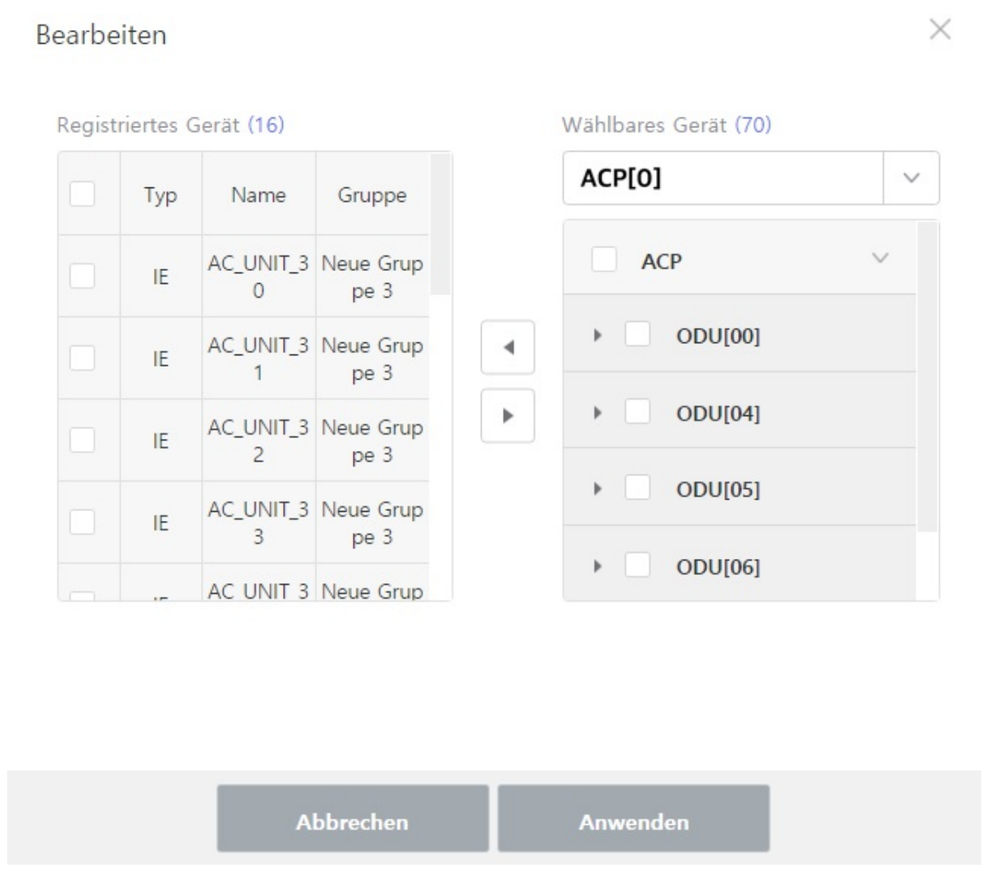


3. Gruppenname eintragen.

4. Für Anwendung fortlaufende Betriebszeit, Wochentage und Anwendungszeit auswählen.

Kategorie	Beschreibung
Platzierung fortlaufende Betriebszeit	• Drücken Sie **[▼]**-Taste, und stellen Sie den gewünschten Dauerbetriebszeitraum ein (1 Stunde ~ 4 Stunden)
Anzuwendender Wochentag	• Wählen Sie das Prüfkästchen aus, um den Wochentag auszuwählen und den Zeitgrenzenbetrieb laufen zu lassen
Anwendungszeit	Kontrollkästchen zur Auswahl der Uhrzeit, bei der der zeitbegrenzte Betrieb beginnen soll. • Den ganzen Tag: Der zeitbegrenzte Betrieb geht über 24 Stunden. • Zeitraum festlegen: Zeitbegrenzter Betrieb findet statt in dem vom Benutzer festgelegten Zeitraum ab Start-Zeit bis Ende-Zeit.

5. UM ein Gerät hinzuzufügen, klicken Sie die **[Bearbeiten]** Taste an.
   - Das Einheit editieren-Popup-Fenster erscheint.



6. In der Liste der auswählbaren Geräte klicken Sie das Prüfkästchen des zu registrierenden Geräts und klicken die **[◀]** Taste an.
   - Für die zeitlich begrenzte Steuerung können Sie alle Geräte außer DI, DO, EIN/AUS, Kühler und Exp.I/O-Gerät registrieren.
   - Um mehrere Gruppen aus einmal zu registrieren, klicken Sie die Prüffelder der zu registrierenden Gruppen an und klicken Sie die **[◀]** Taste.
   - Die ausgewählten Geräte werden in der Liste der registrierten Geräte hinzugefügt.
7. Wird die Geräteregistrierung abgeschlossen, klicken Sie die **[Anwenden]** Taste des Einheit editieren-Popup-Fensters.
8. Klicken Sie die **[Anwenden]** Taste auf der oberen rechten Seite an.

Zeitgrenzensteuerung löschen

Sie können die kontinuierliche Betriebstzeitgrenzengruppe löschen.

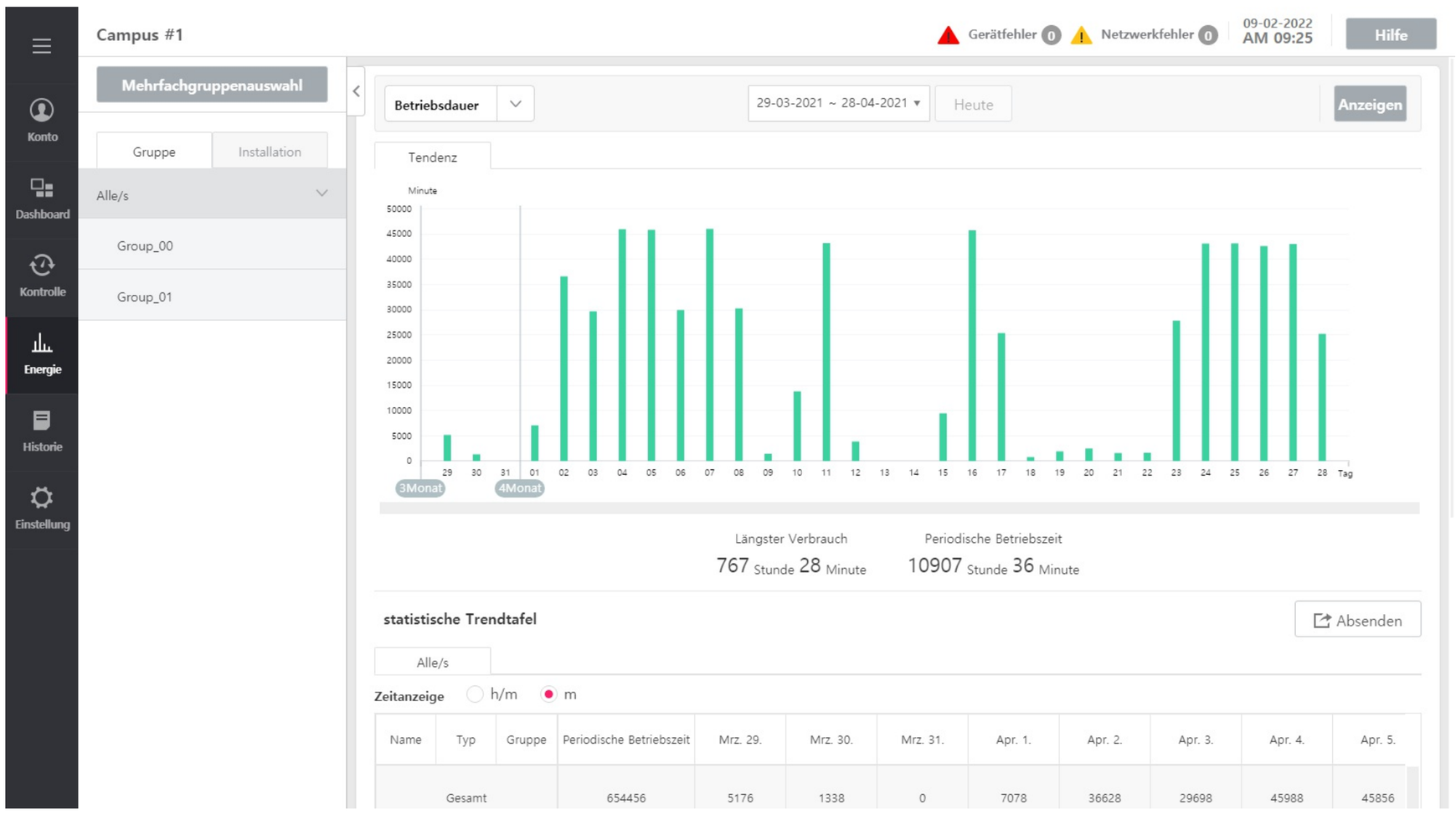
1. In der linken Menütaste klicken Sie das **[Steuerung]** > **[Zeitgrenzensteuerung]** Menü.
   - Das Zeitgrenzensteuerungn-Fenster wird angezeigt.

2. In der Gruppenliste wählen Sie die zu löschende Gruppe aus und klicken Sie die **[Löschen]** Taste an.
3. Wenn das Gruppe löschen-Popup-Fenster erscheint, klicken Sie die **[Ja]** Taste.

Energieverbrauch

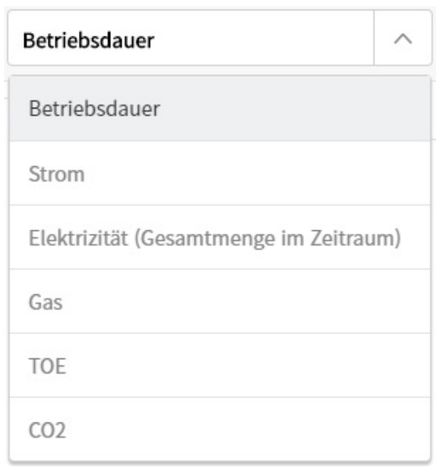
Die Methode der Prüfung der Gerätebetriebszeit, die Stromverbrauchsmenge, die Stromverbrauchsmenge(Gesamtmenge im Zeitraum), die Gasverbrauchsmenge, TOE und CO_2 werden mit Werten und Graphen beschrieben.

1. In der linken Menütaste klicken Sie das **[Energie] > [Energieverbrauch]** Menü an.
   - Der Energieverbrauchsmenge-Bildschirm wird angezeigt.



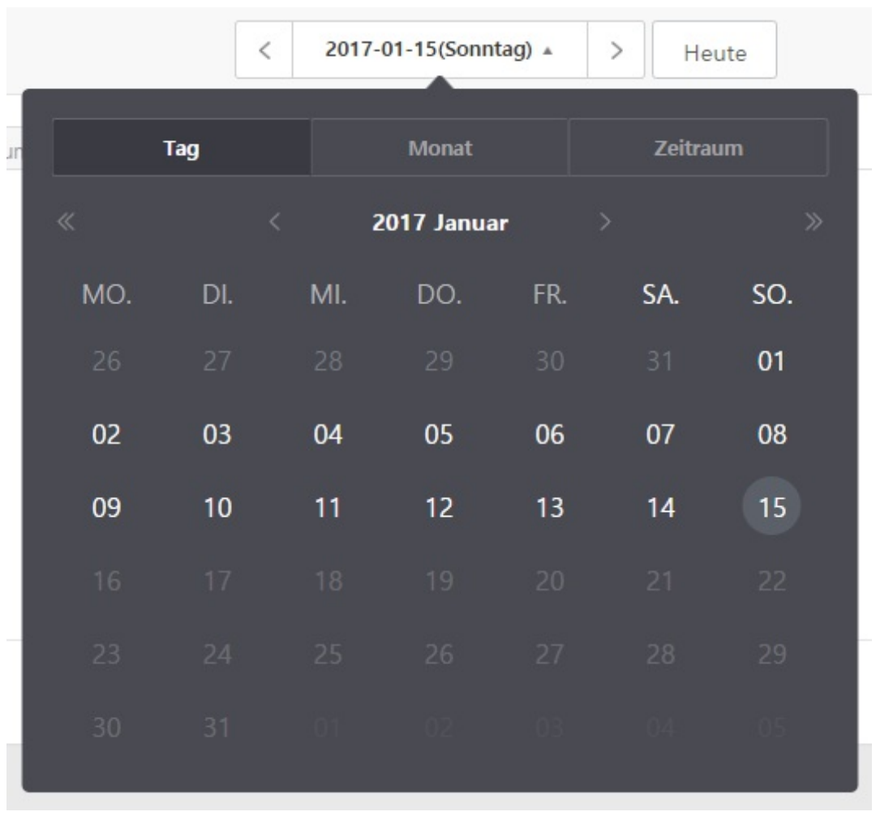
2. Inder Gruppenliste wählen Sie die anzusehende Gruppe aus.

3. Im Seitenkästchen links oben wählen Sie die anzusehende Kategorie aus.



4. Stellen Sie den Ansichtszeitraum ein.

Kategorie	Beschreibung
Tag	Stellen Sie den Tag im Mini-Kalender ein
Monat	Stellen Sie den gewünschten Monat im Mini-Kalender ein
Zeitraum	Stellen Sie den gewünschten Zeitraum im Mini-Kalender ein
Heute	Stellen Sie den heutigen Tag als Basisdatum ein



5. Um die eingestellten Inhalte zu sehen, klicken Sie die **[Anzeigen]** Taste an.
   - Die Energieverbrauchsmenge des eingestellten Zeitraums wird angezeigt.

- Um die angesehenen Inhalte zu speichern, klicken Sie die **[Absenden]** Taste an.

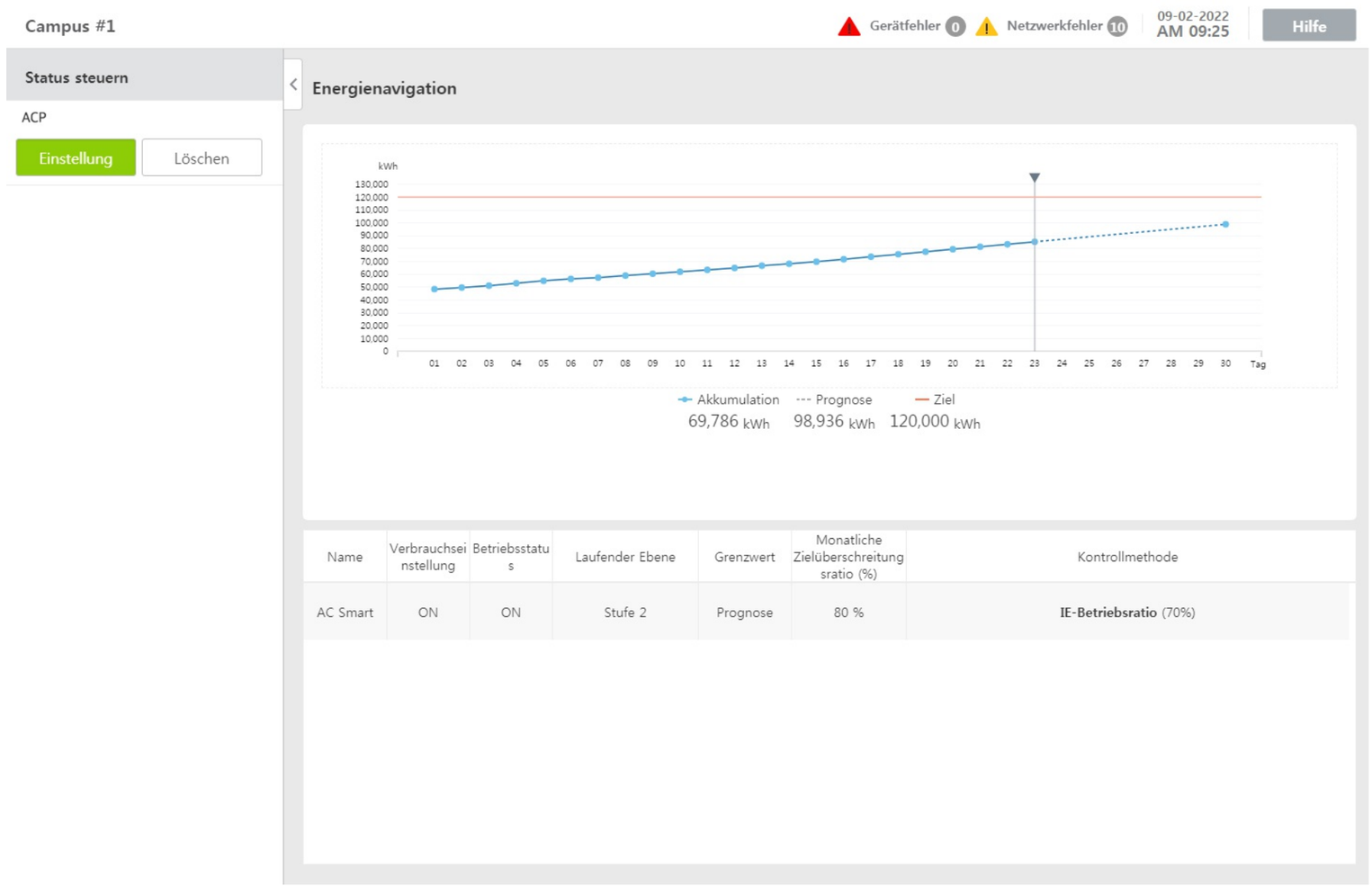
  (Im AC Smart 5-Gerät wird es in USB gespeichert.)

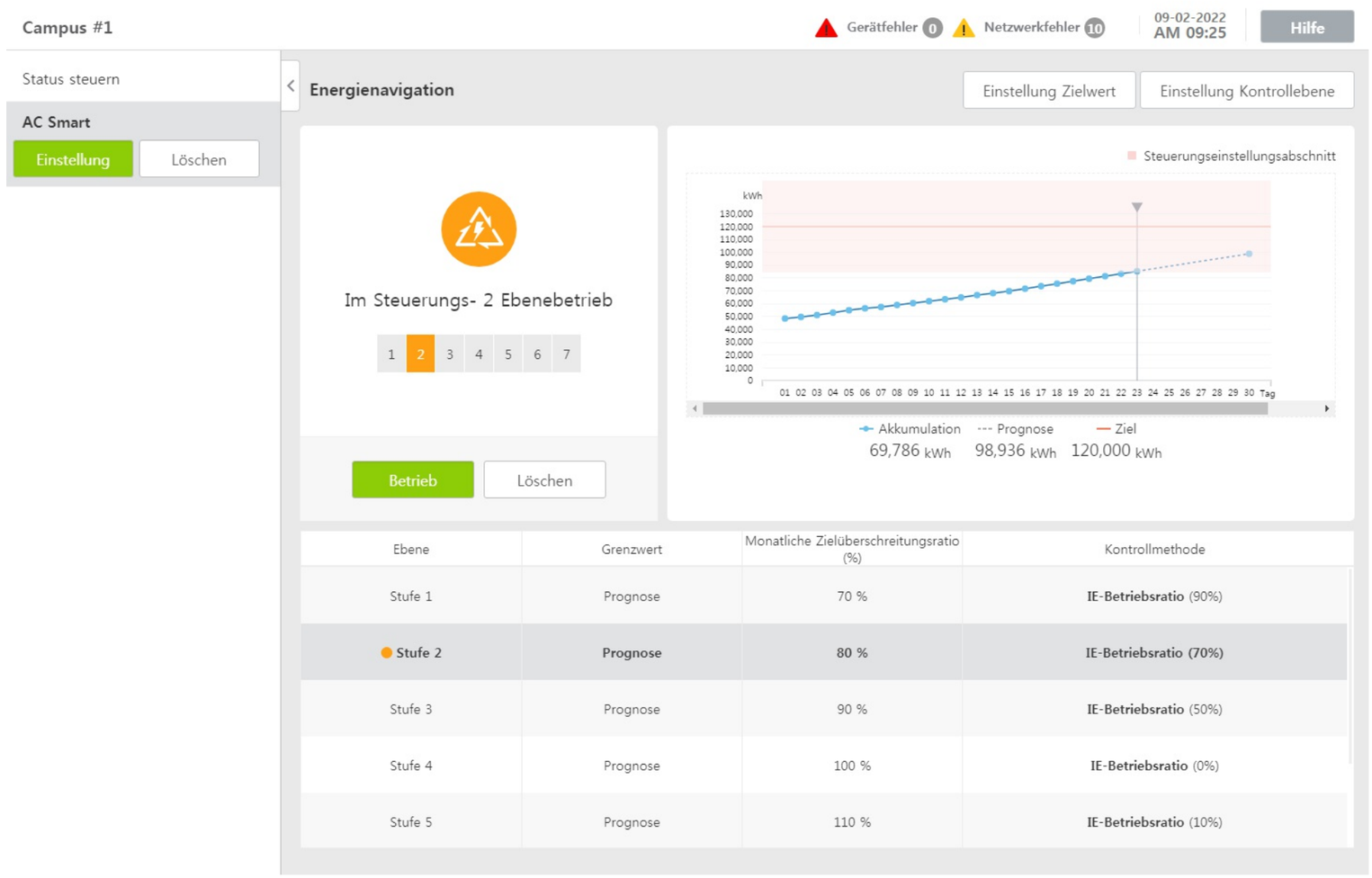
Hinweis

- Dass Ansehen des Stroms ist nur möglich, wenn PDI installiert ist.
- Falls PDI installiert wird, müssen, um Überlappungen zu vermeiden, Innenraumgeräteeinheit, ERV DX und Heating adresse eingestellt werden.
- Die im Programm erschienene Stromverbrauchsmenge kann sich ein wenig von der auf der aktuellen Rechnung vermerkten Stromverbrauchsmenge unterscheiden.
- In [Einstellung]-[Installieren], kann nur das ACP mit einer [Strom] Einstellung überwacht werden.
- Das Ansehen des Gases ist nur möglich, wenn GDI installiert ist.
- Die im Programm erschienene Gasmenge kann sich ein wenig von der auf der aktuellen Rechnung vermerkten Gasmenge unterscheiden.
- In [Einstellung]-[Installieren] kann nur ACP mit eingestellter [Gas] überwacht werden.
- Die Energieüberwachung unterhält nur die Daten des letzten Jahres.
- Die Stundendaten werden bis zu den letzten 3 Monaten gewährleistet.

Energienavigation

Die Energienavigation ist die Funktion, die **[AE Kapazitätskontrolle]/[IE-Betriebsratio]/[IE]** für jedes Stadium entsprechend der Stromverbrauchsprognose und der aktuellen Stromverbrauchsmenge überwachen kann, um in der Lage zu sein, die monatliche Stromverbrauchsmenge unterhalb der Zielmenge zu verwalten.

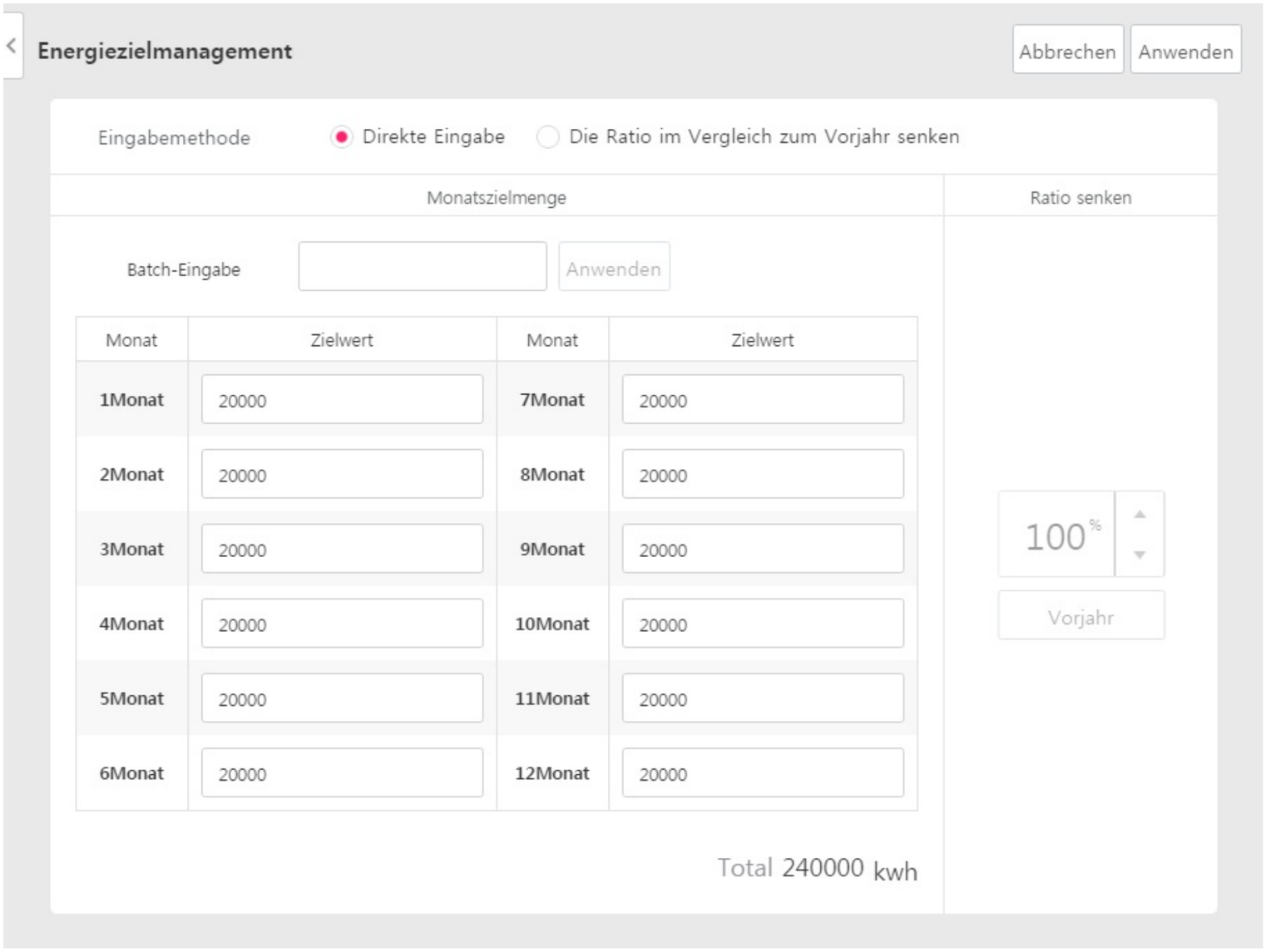




Zielmenge hinzufügen

Sie können die Zielmenge der Energienavigation hinzufügen.

1. In der linken Menütaste klicken Sie das **[Energie]** > **[Energienavigation]** Menü an.
2. In der Steuerungsstatustaste klicken Sie die Gruppe an, um die Zielmenge hinzuzufügen.
3. Klicken Sie die **[Einstellung Zielwert]** Taste auf der rechten oberen Seite an.
   - Das Zielmengeneinstellung-Fenster erscheint.

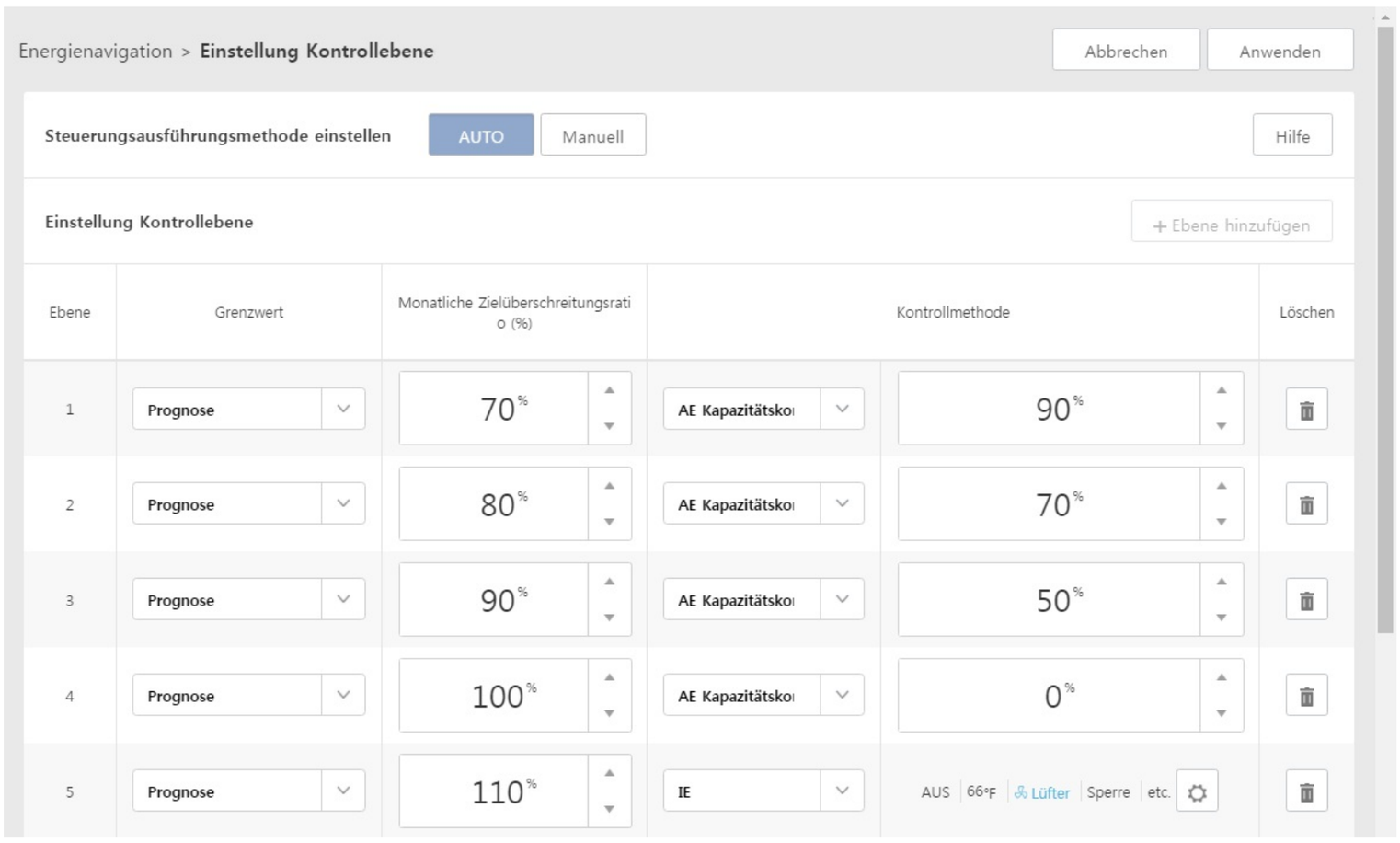


4. Zielmenge in jedem Monat eintragen.
   - Um in allen Monaten auf einmal einzutragen, tragen Sie die Zielmenge ins Eingabefeld des Stapels ein und klicken Sie die **[Anwenden]** Taste an der Seite an.
5. Wird die Zielmengeneingabe abgeschlossen, klicken Sie die **[Anwenden]** Taste auf der rechten oberen Seite an.
6. Wenn das Mitteilung anwenden-Fenster erscheint, klicken Sie die **[Prüfen]** Taste an.

Steuerungsebeneneinstellung

Sie können die Steuerungsebene der Energienavigation einstellen.

1. In der linken Menütaste klicken Sie das **[Energie]** > **[Energienavigation]** Menü an.
2. In der Steuerungsstatustaste klicken Sie die Gruppe an, um die Steuerungsebene einzustellen.
3. Klicken Sie die **[Einstellung Kontrollebene]** Taste auf der rechten oberen Seite an.
   - Das Steuerungsebeneneinstellung-Fenster erscheint.



4. Wählen Sie die Steuerungslaufmethodeneinstellung aus.

Kategorie	Beschreibung
AUTO	Zur Zeit des Alarms wird die Steuerungsmethodeneinstellung für jede Ebene automatisch ausgeführt.
Manuell	Zur Zeit des Alarms wählen Sie aus, ob die für jede Ebene eingestellte Steuerungsmethode ausgeführt werden soll.

5. Klicken Sie die **[+Ebene hinzufügen]** Taste des Steuerungsebeneneinstellung-Fensters an.
6. Stellen Sie die Steuerungsebeneneinstellungskategorien ein.

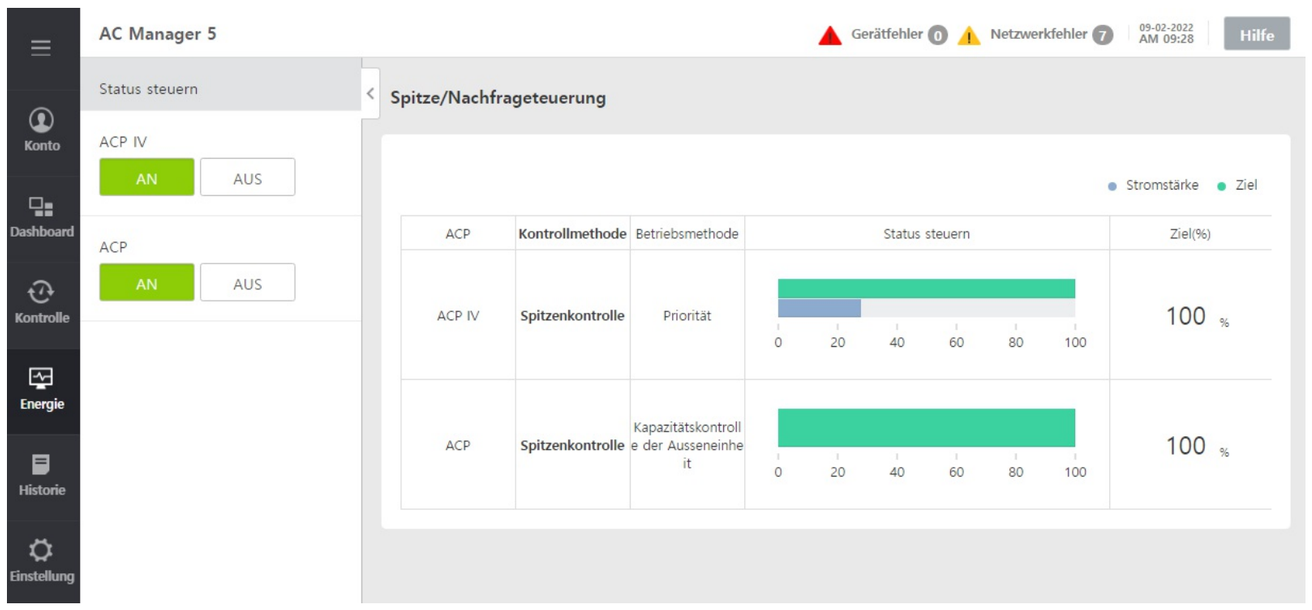
Kategorie	Beschreibung
Überschreitungsstandard	Sie können zwischen der Verbrauchsmengenprognose und der aktuellen Verbrauchsmenge auswählen.
Monatszielüberschreitungsrate	Sie können in 10% des Gerätes zwischen 70~130% einstellen
Kontrollmethode	AE Kapazitätskontrolle: Sie können in 10% des Gerätes zwischen 0~100% einstellen. IE-Betriebsratio: Sie können in 10% der Geräte zwischen 0~100% einstellen.

	IE: Innenraumgerätesteuerung

7. Wenn die Einstellung abgeschlossen ist, klicken Sie die **[Anwenden]** Taste auf der rechten oberen Seite an.
8. Wenn das Mitteilung anwenden-Fenster erscheint, klicken Sie die **[Prüfen]** Taste an.

Spitze/Nachfrageteuerung

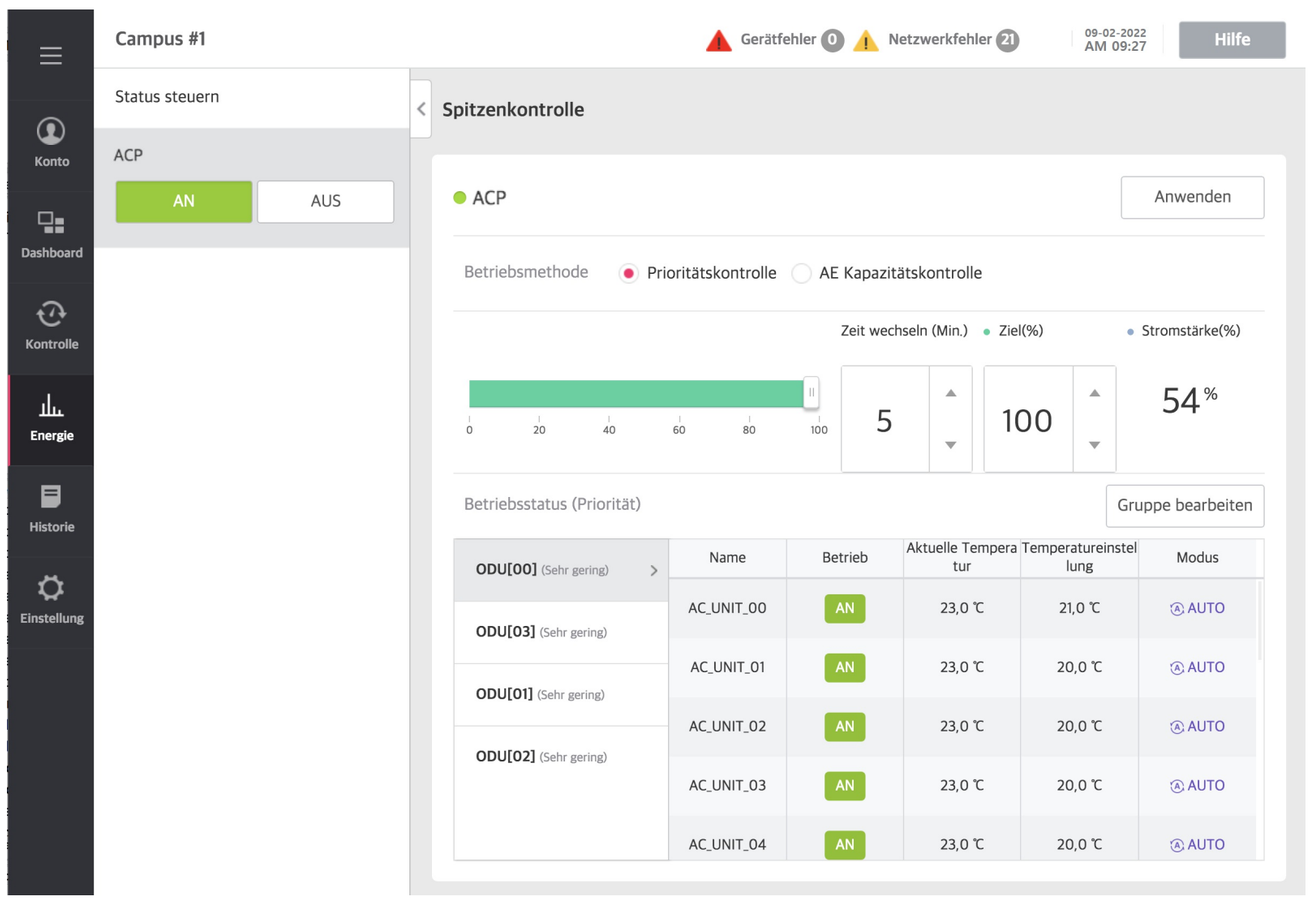
Im Steuerungsstatus können Sie den ACP-Namen, die Steuerungsmethode, die Betriebsmethode, den Steuerungsstatus und die Zielbetriebsrate prüfen.



Spitzenkontrolle

Bei der Spitzensteuerung handelt es sich um eine Funktion zum Einstellen der Zielbetriebsrate, welche den maximalen Energieverbrauch begrenzt und den Gesamtstromverbrauch steuert, um die Zielbetriebsrate nicht zu überschreiten. Um zu verhindern, dass der Gesamtstromverbrauch die Zielbetriebsrate überschreitet, wird der Kühlmodus automatisch in den Nur-Wind-Modus gemäß der Priorität umgewandelt, und der Heizmodus wird automatisch geAUS, sodass der Stromverbrauchswert eingespart werden kann.

1. In der linken Menütaste klicken Sie das **[Energie] > [Spitze/Nachfrageteuerung]** Menü an.
   - Der Spitzen-/Bedarfsgerechte Steuerung-Fenster wird angezeigt.
2. In der ACP-Liste wählen Sie das zu steuernde ACP aus.
   - Der entsprechende Einstellungsstatus der ACP-Steuerung wird auf dem Bildschirm angezeigt.



3. In der Steuerungsinformationsanzeige stellen Sie den erwünschten Steuerungsstatus ein.

Kategorie	Beschreibung
Betriebsmethode	• Die Außengerätekapazitätssteuerung: Die Zielbetriebsrate wird in den Geräten der Außengeräte angewandt, um die Außengerätekapazitätsbetriebsrate zu steuern • Prioritätensteuerung: Steuert die Gruppen der unteren Ebenen entsprechend der Prioritäten des ACP
Betriebsrate-Leiste	• Die Innenraumgerätezielbetriebsrate wird als Leisten-Graph angezeigt • Sie können die Leiste des Graphen ziehen, um die Zielbetriebsrate einzustellen
Stromstärke(%)	Unter allen ausgewählten ACP-Innenraumgeräten kennzeichnet es die durch das sich aktuell in Betrieb befindliche Gerät erreichten %
Ziel(%)	Drücken Sie die **[▲]/[▼]** Taste, um die Zielbetriebsrate einzustellen
Zeit wechseln (Min.)	• Drücken Sie die **[▲]/[▼]** Taste, um den Zyklus des ZwangsbetriebsAUSps in der min. Einheit einzustellen • Sie können diesen zwischen 5 bis 15 Min. in Einheiten von 1 Min. festlegen.
Betriebsstatus	Zeigt die Information an, wie den Gerätenamen/ob es in Betrieb ist/die aktuelle Temperatur/die eingestellte Temperatur/den Modus

4. Um die Steuerungseinstellung anzuwenden, klicken Sie die **[Anwenden]** Taste an.
   - Der eingestellte Steuerungsstatus wird gespeichert.
5. Um die entsprechende Gruppe mit dem eingestellten Status zu starten, klicken Sie die **[AN]** Taste der Gruppenliste. Um den Betrieb der entsprechenden Gruppe zu AUSpen, klicken Sie die **[AUS]** Taste der Gruppenliste.

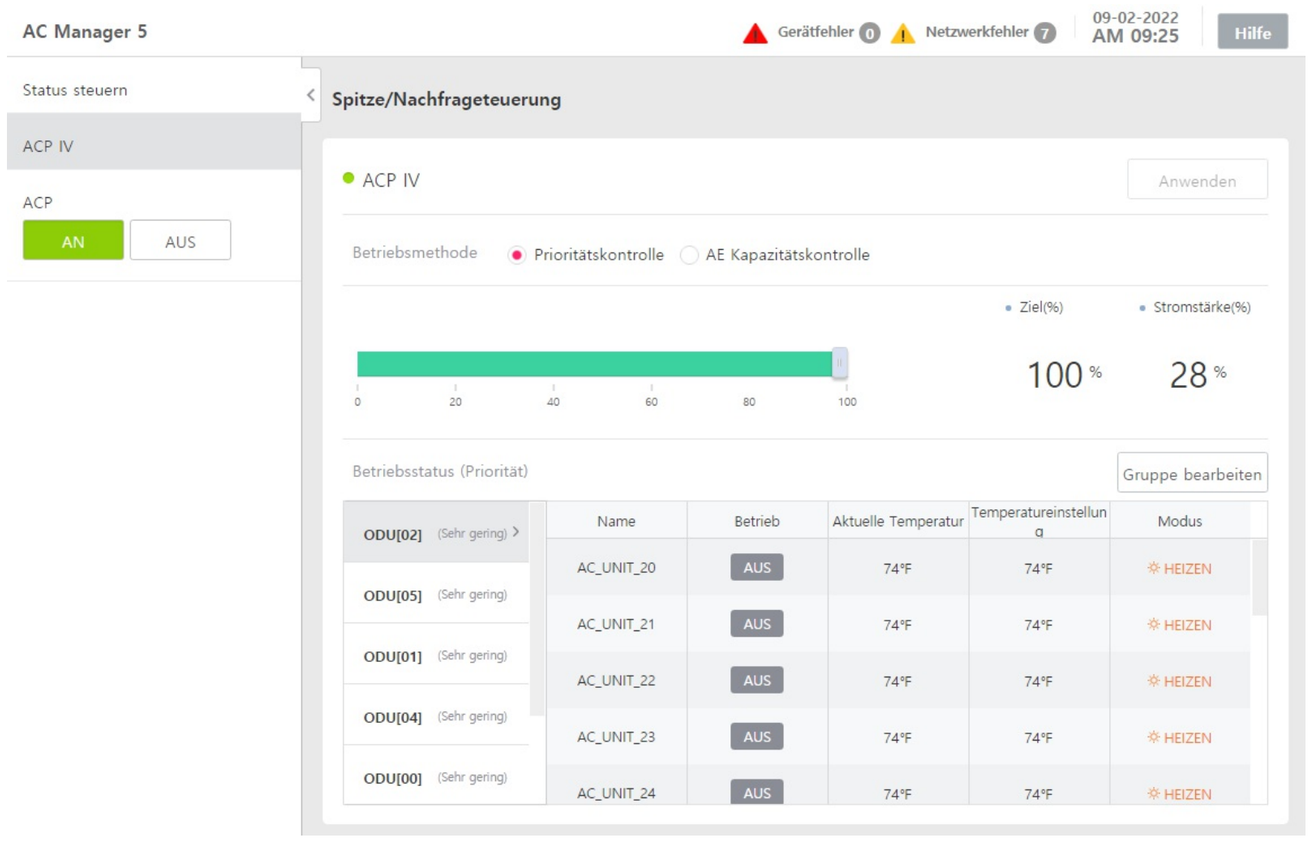
Hinweis

Zum Ändern der Steuerungseinstellungen muss zunächst die Peak-Regelung gestoppt werden. (Peak-Regelung stoppen → Steuerungseinstellungen ändern und anwenden → Peak-Regelung betätigen)

Bedarfskontrolle

Sie können den Stromverbrauchsänderungstrend beobachten und den Stromverbrauch begrenzen, damit die vorbestimmte vertragliche Stromverbrauchsmenge nicht überschritten wird. Wenn sie auf die Bedarfsgerechte Steuerung eingestellt wird, wenn erwartet wird, dass die vertragliche Stromverbrauchsmenge überschritten wird, AUS es das am Wenigsten benötigte Gerät und der Stromverbrauch wird verteilt, so dass man die Stromverbrauchsmenge speichern kann.

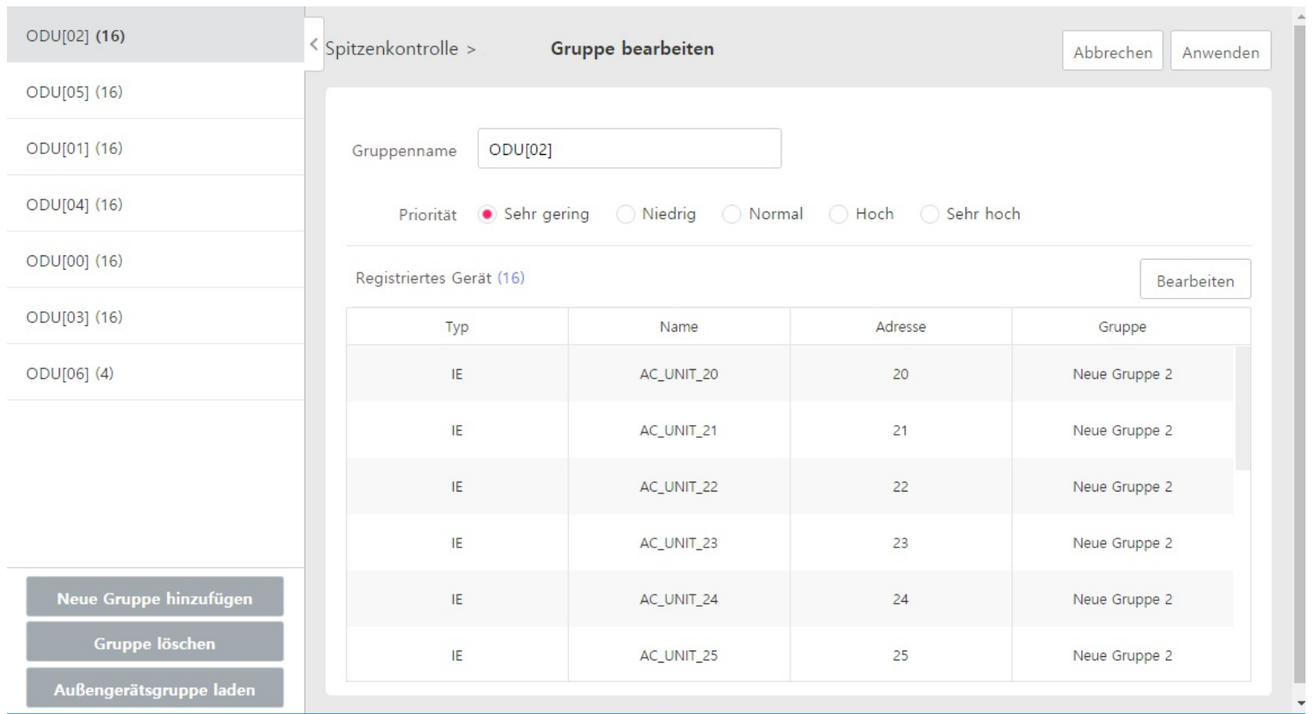
- Im Bedarfsgerechte Steuerung-Menü können Sie den Bedarfsgerechte Steuerungsstatus prüfen und die Gruppe bearbeiten. Aber, Sie können die Zielbetriebsrate, die Betriebsumschaltzeit und die Betriebssteuerung nicht einstellen.



Spitzenleistungsgruppe hinzufügen/bearbeiten

Sie können die Spitzenleistungssteuerungsgruppe hinzufügen und bearbeiten.

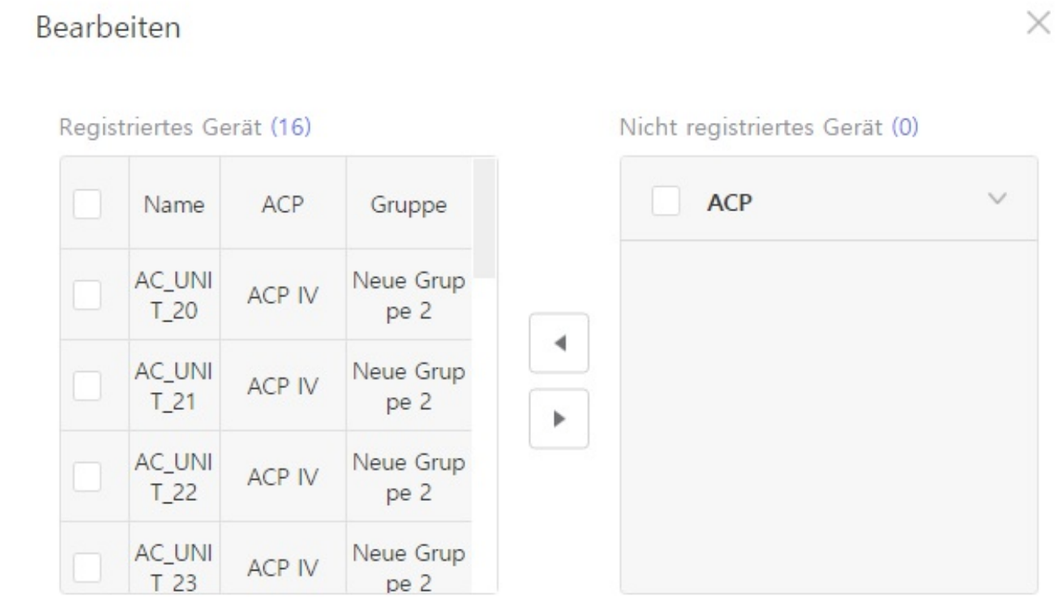
1. In der linken Menütaste klicken Sie das **[Energie] > [Spitze/Nachfrageteuerung]** Menü an.
   - Der Spitzen-/Bedarfsgerechte Steuerung-Fenster wird angezeigt.
2. Klicken Sie die **[Gruppe bearbeiten]** Taste.
   - Der Gruppe bearbeiten-Bildschirm wird angezeigt.



Kategorie	Beschreibung
Gruppenname	Der Namen der hinzuzufügenden Gruppe eintragen
Priorität	Wählen Sie die erwünschte Priorität unter sehr gering/gering/normal/hoch/sehr hoch aus
[Bearbeiten]	Öffnen Sie das Einheit editieren-Fenster (Gerätliste hinzufügen oder löschen)
Registriertes Gerät	Die in der Gruppe registrierte Geräteliste wird angezeigt
[Neue Gruppe hinzufügen]	Gruppe für die Spitzenleistungssteuerung hinzufügen
[Gruppe löschen]	Die ausgewählte Spitzenleistungsgruppe löschen
[Außengerätegruppe laden]	Wird in den Geräten der im ACP registrierten Außengeräte angewandt

3. Tragen Sie den Namen der entsprechenden Gruppe ins Gruppennameneingabe-Feld ein.
4. Die erwünschte Priorität auswählen.
   - Die Steuerungsebenen sind: Sehr Niedrig → Niedrig → Mittel → Hoch → Sehr hoch
5. Um das Gerät zu registrieren, klicken Sie die **[Bearbeiten]** Taste an.
   - Das Einheit editieren-Popup-Fenster erscheint.
6. In der Liste der nichtregistrierten Geräte klicken Sie das Prüfkästchen des zu registrierenden Geräts und klicken Sie die **[◀]** Taste an.
   - Für die Spitzenleistungssteuerung können nur Innenraumgeräte registriert werden.

- Um verschiedene Geräte gleichzeitig zu registrieren, klicken Sie die Prüfkästchen der zu registrierenden Geräte an und klicken Sie die **[◀]** Taste an.
- Die ausgewählten Geräte werden in der Liste der registrierten Geräte hinzugefügt.





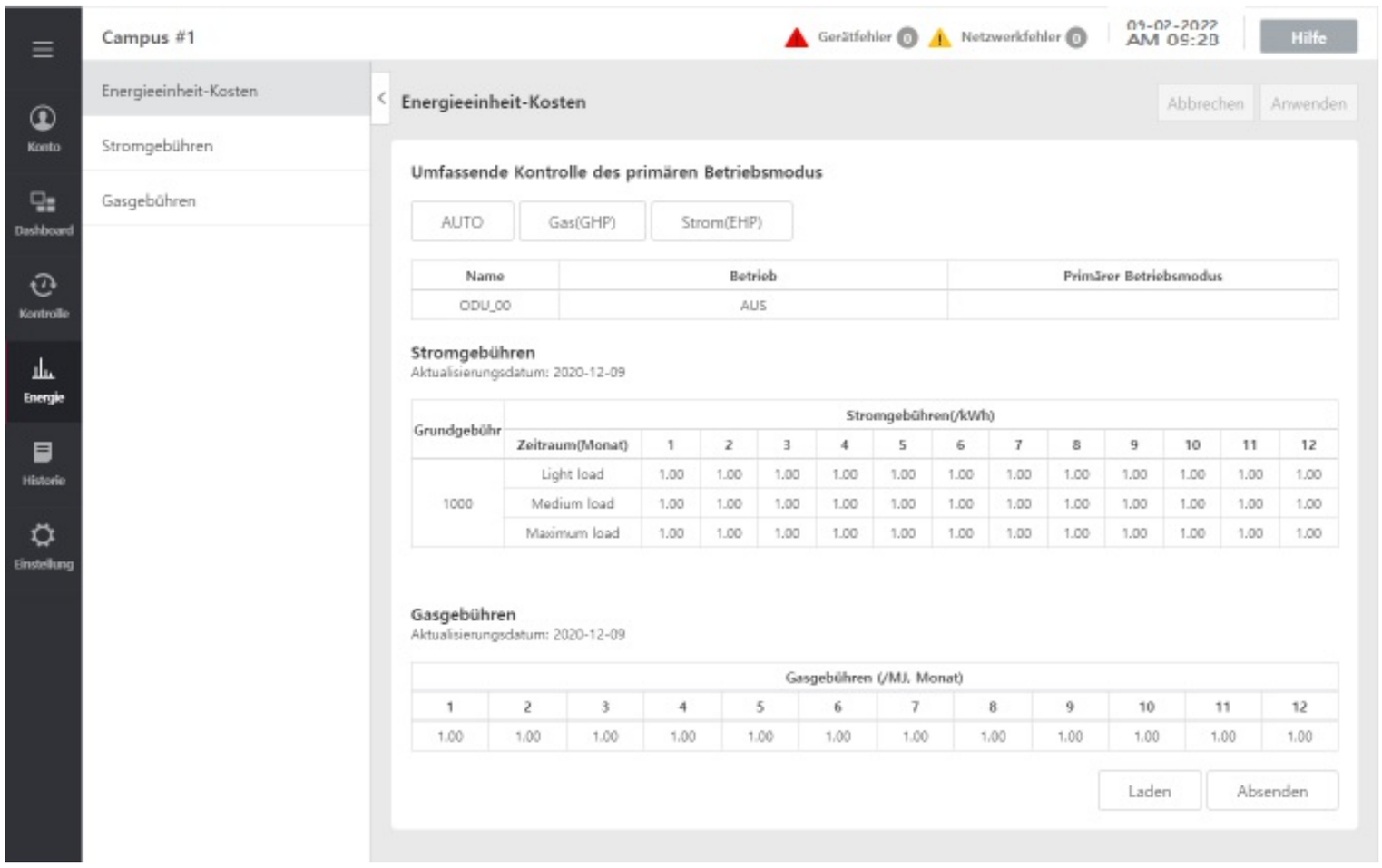
7. Um es im Einheit editieren-Popup-Fenster anzuwenden, klicken Sie die **[Anwenden]** Taste an.
8. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste des Spitze/Nachfrage-Bildschirms an.

Energieeinheit-Kosten

Im Menü Energieeinheit-Kosten können Sie die Option "Priority Mode Total Control" (Prioritätsmodus-Gesamtsteuerung) checken sowie die derzeit eingestellten Stromgebühren und Gasgebühren.

Hinweis

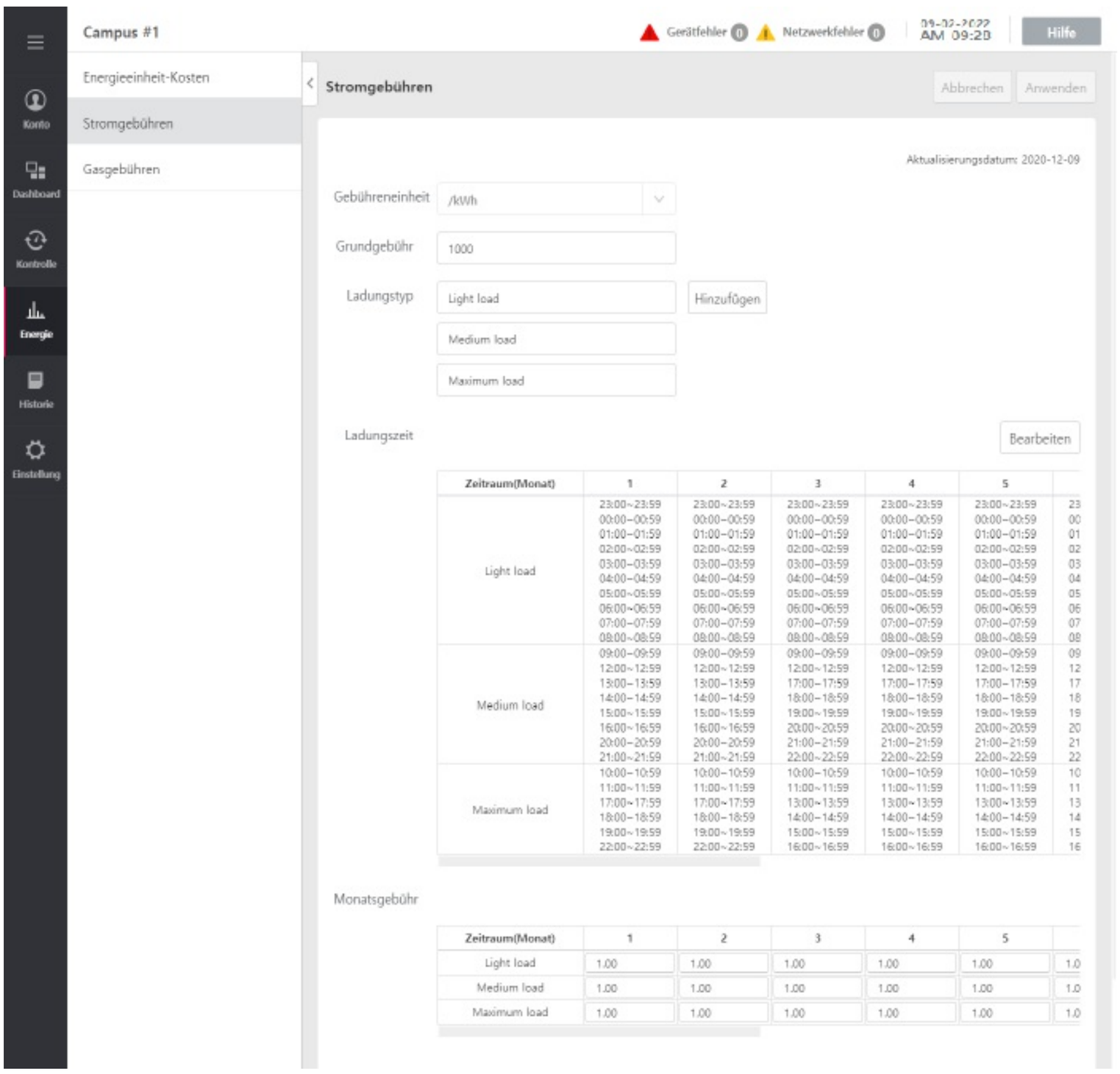
- Energieeinheit-Kosten ist ein exklusiver Menüpunkt für eine GHP Hybrid Außeneinheit (GHP - Geothermal Heat Pump - Wärmepumpenheizung). Ist nicht vorhanden, wenn andere Außeneinheiten verbunden sind.



Stromgebühr

Die Option Stromgebühr ermöglicht, die monatlichen Gebühren auf Grundlage der Laststunden festzulegen.

Die monatlichen Stromgebühren müssen festgelegt werden auf Basis der Stromgebühren-Tabelle.

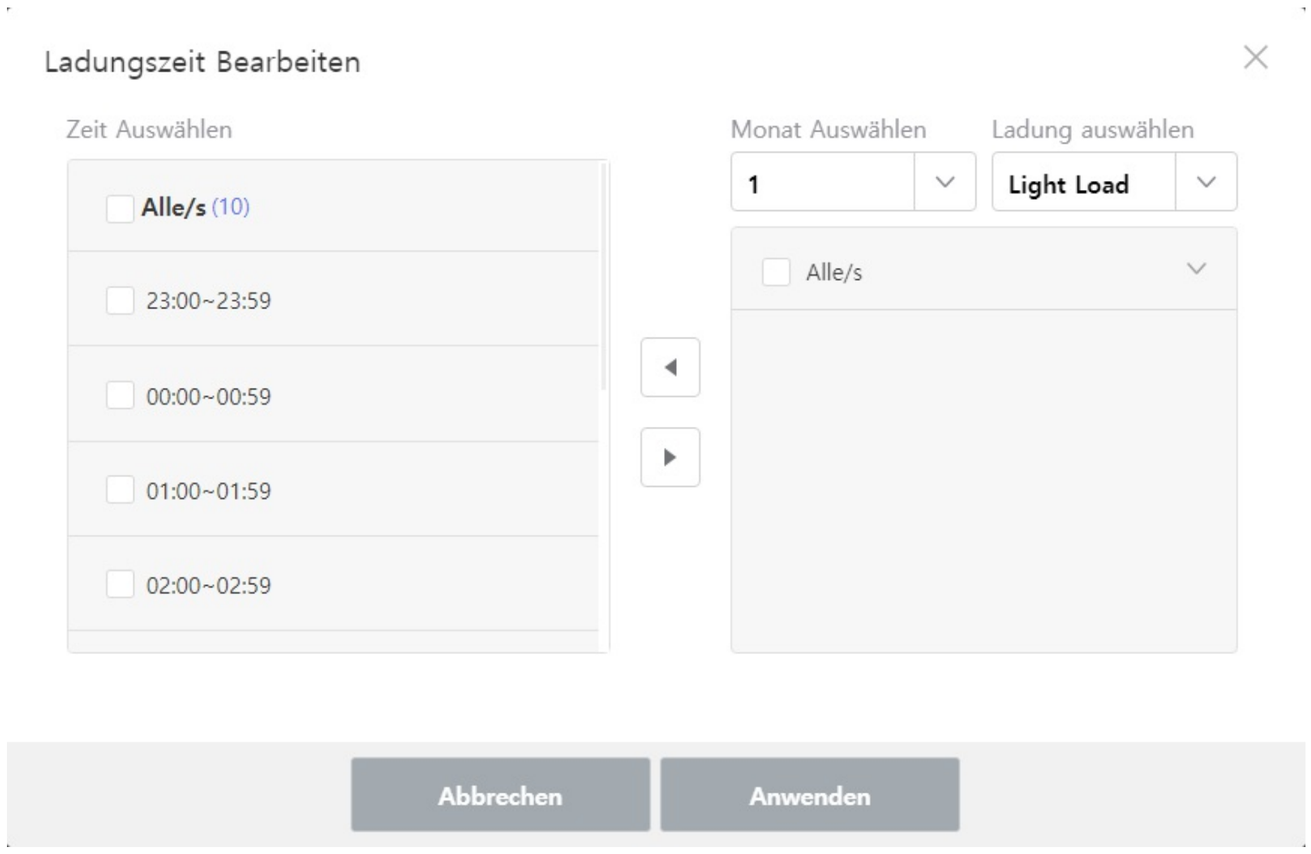


1. Sie können die Grundgebühr bearbeiten.
2. Sie können die Lastart bearbeiten oder eine hinzufügen.

3. Sie können die Monatsgebühr bearbeiten.

Lastzeit bearbeiten

Sie können die Lastzeit bearbeiten auf Grundlage von Monat und Lastart.



Kategorie	Beschreibung
Monat auswählen	Einen Monat auswählen, um die Lastzeit zu bearbeiten.
Last auswählen	Für den ausgewählten Monat eine Lastart auswählen.
Stunde auswählen	Für den ausgewählten Monat und Last die Stunden auswählen.

1. Einen Monat auswählen, um die Lastzeit zu bearbeiten.
2. Für den ausgewählten Monat eine Lastart auswählen.
3. Für den ausgewählten Monat und die Last die Stunden auswählen, auf Kontrollkästchen klicken und dann auf die Taste > drücken.

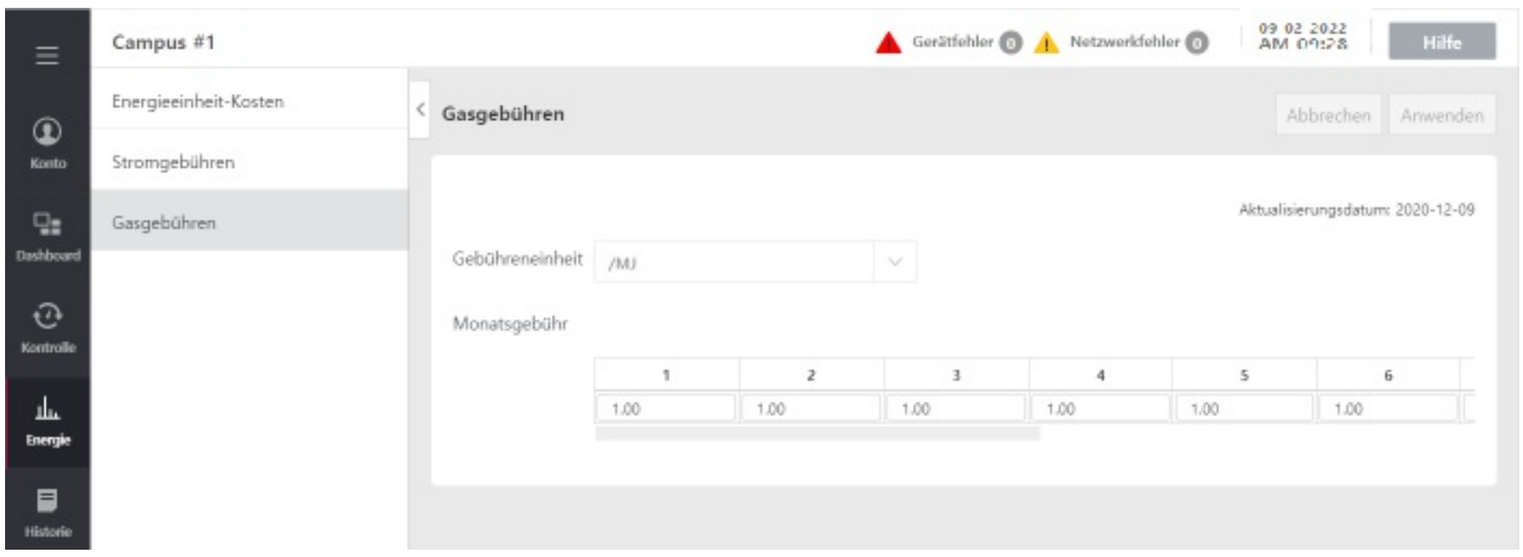
Hinweis

- Erst wenn alle Stunden zugewiesen sind, ist die Schaltfläche "Apply" (Übernehmen) aktiviert.
- Bei Monatsgebühr können Sie bis zu sechs Ziffern eingeben, aber der Wert darf nicht über 655,35 liegen.
- Das Update-Datum wird verwendet, wenn Sie die Option "Edit Electricity Fee" (Stromgebühren bearbeiten) verwenden.

Gasgebühr

Die Option Gasgebühr ermöglicht, die monatlichen Gebühren auf Grundlage der Laststunden festzulegen.

Die monatlichen Gasgebühren müssen festgelegt werden auf Basis der Gasgebühren-Tabelle.



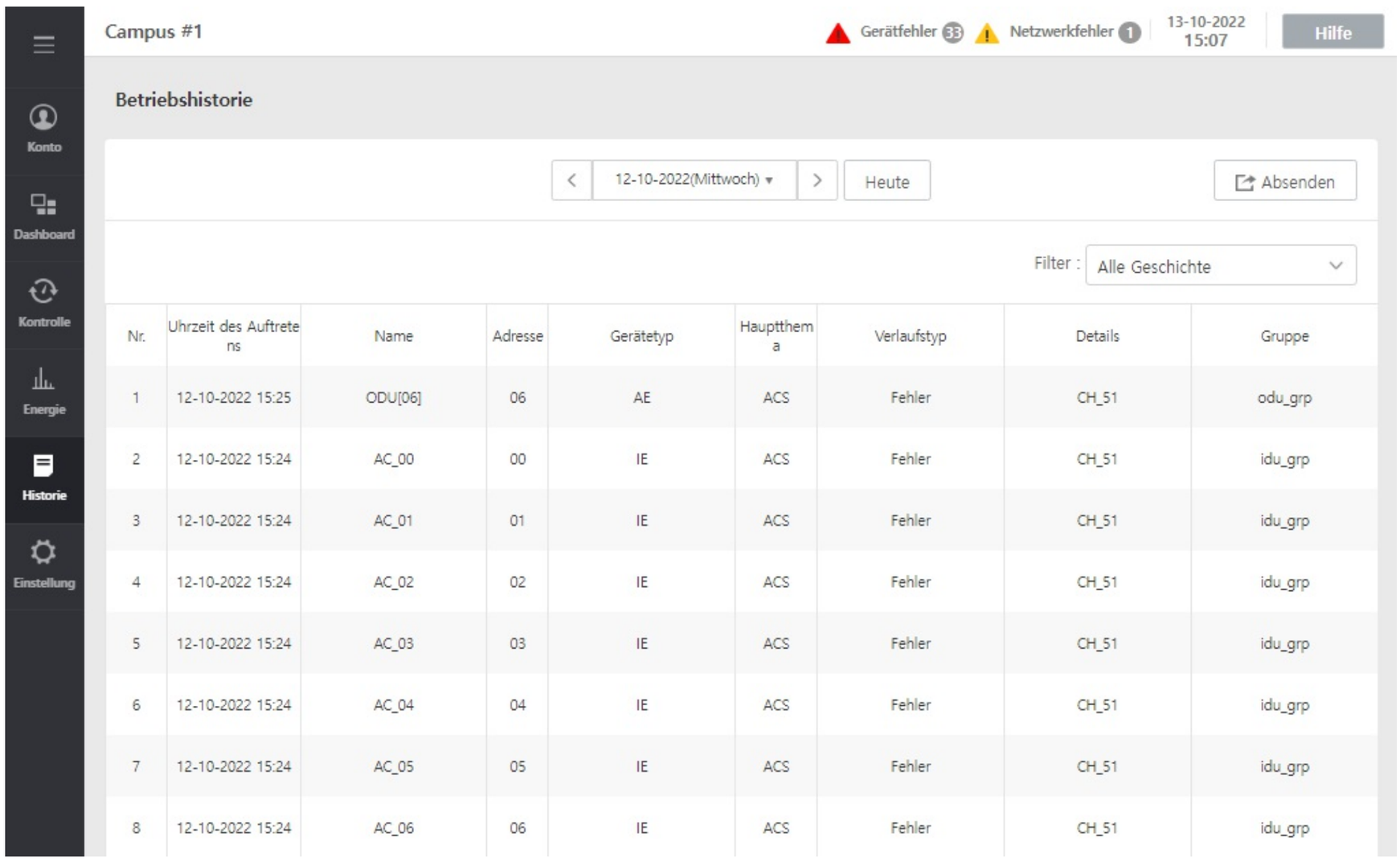
Hinweis

- Bei Monatsgebühr können Sie bis zu sechs Ziffern eingeben, aber der Wert darf nicht über 65,535 liegen.
- Das Update-Datum wird verwendet, wenn Sie die Option "Edit Gas Fee" (Gasgebühren bearbeiten) verwenden

Betriebshistorie

Sie können die Benutzer-/Automatiksteuerungsbetrieb-Historie und die Statusänderung oder den Fehlerstatus des angeschlossenen Geräts ansehen.

1. In der linken Menütaste klicken Sie das **[Historie] > [Betriebshistorie]** Menü an.
   - Der Betriebshistorie-Bildschirm wird angezeigt



Nr.	Uhrzeit des Auftretens	Name	Adresse	Gerätetyp	Hauptthema	Verlaufstyp	Details	Gruppe
1	12-10-2022 15:25	ODU[06]	06	AE	ACS	Fehler	CH_51	odu_grp
2	12-10-2022 15:24	AC_00	00	IE	ACS	Fehler	CH_51	idu_grp
3	12-10-2022 15:24	AC_01	01	IE	ACS	Fehler	CH_51	idu_grp
4	12-10-2022 15:24	AC_02	02	IE	ACS	Fehler	CH_51	idu_grp
5	12-10-2022 15:24	AC_03	03	IE	ACS	Fehler	CH_51	idu_grp
6	12-10-2022 15:24	AC_04	04	IE	ACS	Fehler	CH_51	idu_grp
7	12-10-2022 15:24	AC_05	05	IE	ACS	Fehler	CH_51	idu_grp
8	12-10-2022 15:24	AC_06	06	IE	ACS	Fehler	CH_51	idu_grp

2. Stellen Sie den anzusehenden Zeitraum ein.

Kategorie	Beschreibung
Ansichtszeitraum	• Tag: sieht die Historie des ausgewählten Datums an • Zeitraum: sieht die Historie des ausgewählten Zeitraums an • Heute: sieht die heutige Historie an

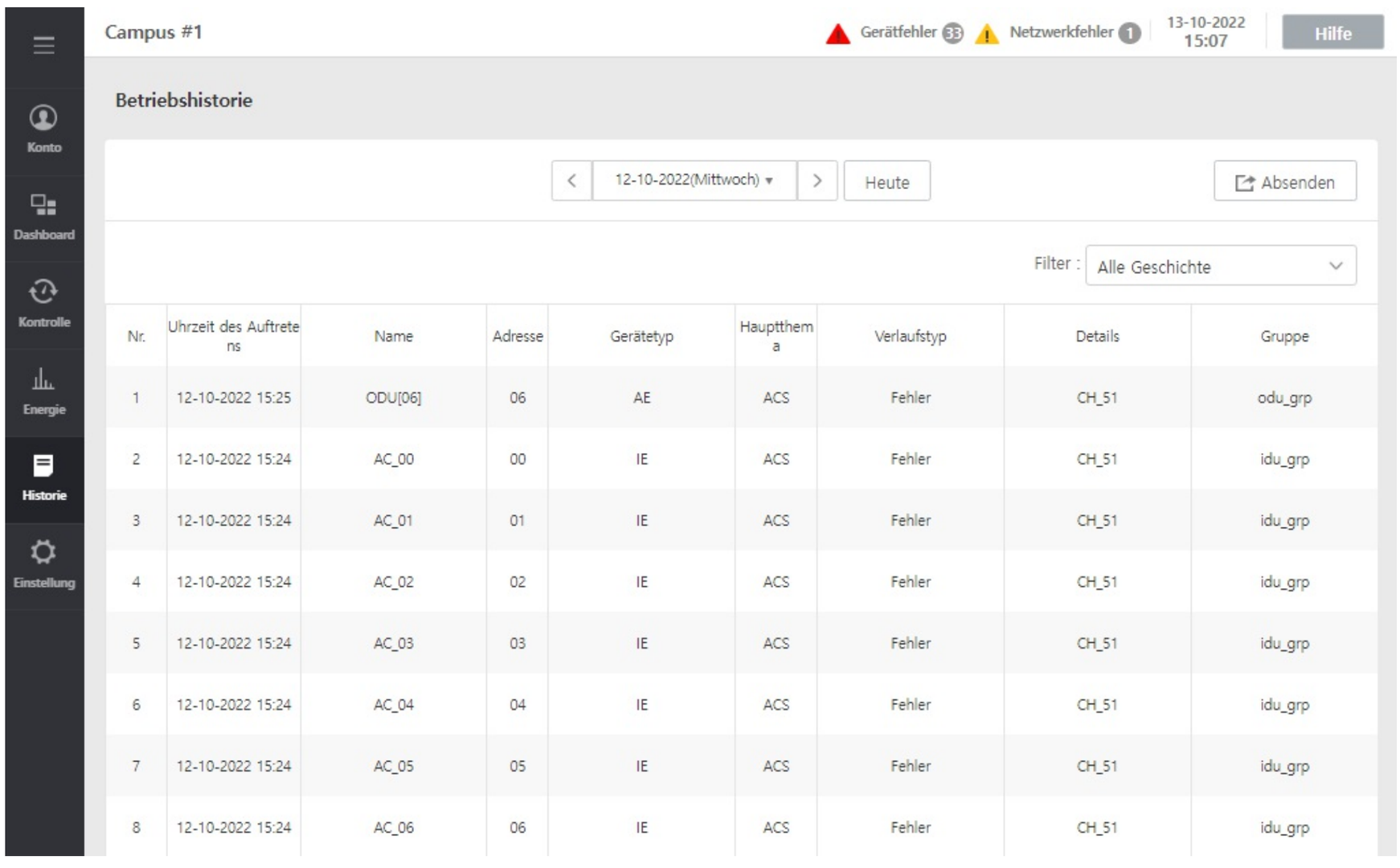
3. In der Filterkategorie wählen Sie das Gerät oder den Historientypen aus.
   - Sie können das Prüfkästchen anklicken, um mehrfache Informationen auszuwählen.
   - Sie können die ausgewählten Inhalte durch die **[Initialisierung]** Taste initialisieren.
4. Wenn das Gerät und Historientypenauswahl abgeschlossen ist, klicken Sie die **[Anwenden]** Taste an.
   - Die Betriebshistorie des eingestellten Zeitraums wird angezeigt.

Darstellung der Bedieneinheit im Detail	Detail zum Betriebs (Zentralsteuerung)	Darstellung der Bedieneinheit im Detail	Detail zum Betriebs (Außer zentrales Steuerelement)
ACS	Überwachung der Steuerung	Fernbedienung	Kontrollhistorie nach Geräten außer Zentralsteuerung (z.B. Fernsteuerung/Trockenkontakt/Automatisierte Logik der Innen- und Außeneinheiten)
Admin	Detail der Nutzerkontrolle der Zentralsteuerung	BMS	Steuerung durch BACnet
Slave-Controller	Steuerung durch Slave-Zentralsteuerung	Lonworks	Steuerung durch LonWorks
ACM	Detail der Nutzerkontrolle der Zentralsteuerung	TMS EMS-Motorsteuerung	Steuerung durch EMS-Motor des TMS
Zeitplan	Steuerung durch Zeitplan der Zentralsteuerung	TMS-Stromsparsteuerung	Steuerung durch Energiesparfunktionen des TMS
AutoWechsel(Besetzt)	Steuerung durch automatische Umschaltfunktion der Zentralsteuerung	TMS-mobil	Steuerung durch TMS-Mobilbenutzer
Rückschlag(Nicht besetzt)	Steuerung durch Temperaturbegrenzung der Zentralsteuerung	TMS-Internet	Steuerung durch TMS-Webbenutzer
Spitzenkontrolle	Steuerung durch Peak-Kontrollfunktion der Zentralsteuerung	KEPCO	Steuerung durch Korea Electric Power Corporation
Spitze klar	Steuerung durch Peak-Entfernungsbefehl der Zentralsteuerung		
Zeitgrenzensteuerung	Steuerung durch Betriebszeit-Begrenzungsbefehl der Zentralsteuerung		
Verriegelung	Steuerung durch Gerätesperrbefehl der Zentralsteuerung		
Verriegelung	Steuerung durch Kopiermuster des Gerätesperrbefehls der Zentralsteuerung		

Notfallsituation	Steuerung durch DI1 Kurzschluss der Zentralsteuerung		
Energienavigation	Steuerung durch Betriebssteuerung der Energienavigation der Zentralsteuerung		
Override	Steuerung durch 2-fache Überbrückungsfunktion der Inneneinheit der Zentralsteuerung		

Information aussenden

1. In der linken Menütaste klicken Sie das **[Historie] > [Betriebshistorie]** Menü an.
   - Der Betriebshistorie-Bildschirm wird angezeigt



Nr.	Uhrzeit des Auftretens	Name	Adresse	Gerätetyp	Hauptthema	Verlaufstyp	Details	Gruppe
1	12-10-2022 15:25	ODU[06]	06	AE	ACS	Fehler	CH_51	odu_grp
2	12-10-2022 15:24	AC_00	00	IE	ACS	Fehler	CH_51	idu_grp
3	12-10-2022 15:24	AC_01	01	IE	ACS	Fehler	CH_51	idu_grp
4	12-10-2022 15:24	AC_02	02	IE	ACS	Fehler	CH_51	idu_grp
5	12-10-2022 15:24	AC_03	03	IE	ACS	Fehler	CH_51	idu_grp
6	12-10-2022 15:24	AC_04	04	IE	ACS	Fehler	CH_51	idu_grp
7	12-10-2022 15:24	AC_05	05	IE	ACS	Fehler	CH_51	idu_grp
8	12-10-2022 15:24	AC_06	06	IE	ACS	Fehler	CH_51	idu_grp

2. Stellen Sie den anzusehenden Zeitraum ein.

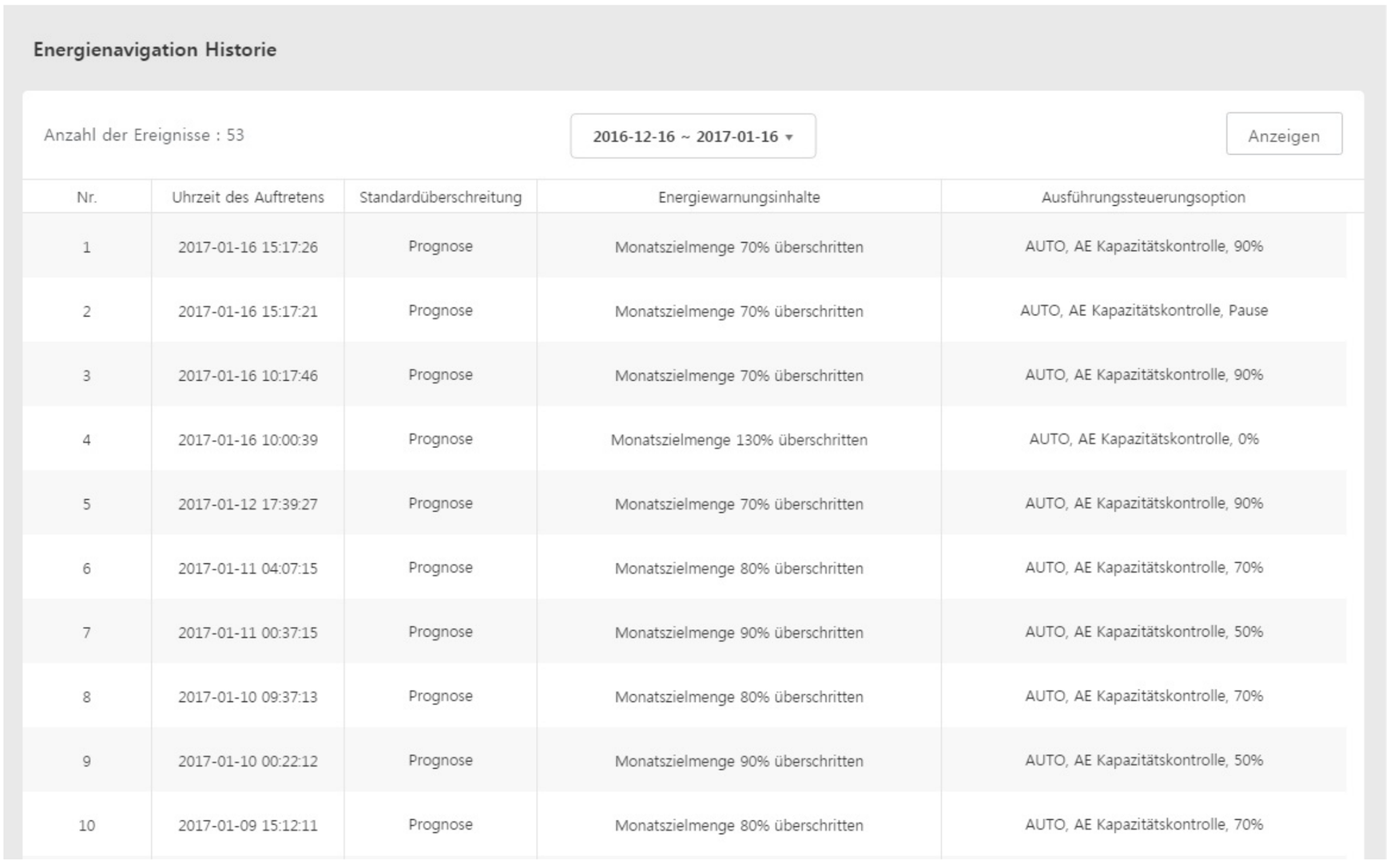
Kategorie	Beschreibung
Ansichtszeitraum	• Tag: sieht die Historie des ausgewählten Datums an • Zeitraum: sieht die Historie des ausgewählten Zeitraums an • Heute: sieht die heutige Historie an

3. Klicken Sie die **[Absenden]** Taste an.
   - Excel-Datei, max. 20000 EA
   - Im AC Smart 5-Gerät wird es in USB gespeichert.

Energienavigation Historie

Sie können die Historie des Betriebs des Energienavigationsalarms und der Steuerung ansehen.

1. In der linken Menütaste klicken Sie das **[Historie] > [Energienavigation Historie]** Menü an.
   - Der Energienavigationsbildschirm wird angezeigt.

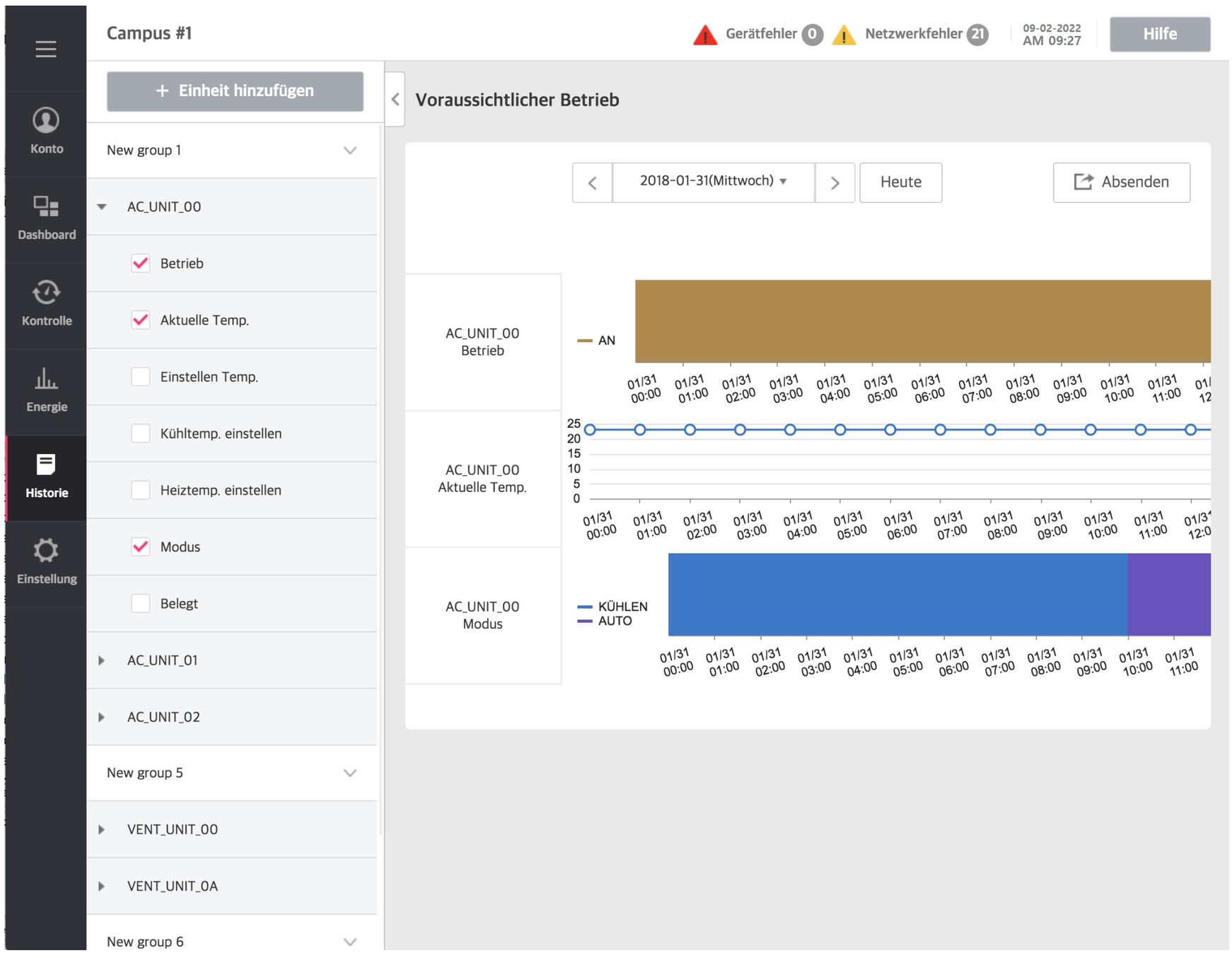


Nr.	Uhrzeit des Auftretens	Standardüberschreitung	Energiewarnungsinhalte	Ausführungssteuerungsoption
1	2017-01-16 15:17:26	Prognose	Monatszielmenge 70% überschritten	AUTO, AE Kapazitätskontrolle, 90%
2	2017-01-16 15:17:21	Prognose	Monatszielmenge 70% überschritten	AUTO, AE Kapazitätskontrolle, Pause
3	2017-01-16 10:17:46	Prognose	Monatszielmenge 70% überschritten	AUTO, AE Kapazitätskontrolle, 90%
4	2017-01-16 10:00:39	Prognose	Monatszielmenge 130% überschritten	AUTO, AE Kapazitätskontrolle, 0%
5	2017-01-12 17:39:27	Prognose	Monatszielmenge 70% überschritten	AUTO, AE Kapazitätskontrolle, 90%
6	2017-01-11 04:07:15	Prognose	Monatszielmenge 80% überschritten	AUTO, AE Kapazitätskontrolle, 70%
7	2017-01-11 00:37:15	Prognose	Monatszielmenge 90% überschritten	AUTO, AE Kapazitätskontrolle, 50%
8	2017-01-10 09:37:13	Prognose	Monatszielmenge 80% überschritten	AUTO, AE Kapazitätskontrolle, 70%
9	2017-01-10 00:22:12	Prognose	Monatszielmenge 90% überschritten	AUTO, AE Kapazitätskontrolle, 50%
10	2017-01-09 15:12:11	Prognose	Monatszielmenge 80% überschritten	AUTO, AE Kapazitätskontrolle, 70%

2. Wählen Sie ein Gerät aus, dessen Verlauf Sie betrachten möchten.
3. Stellen Sie das Start- und Enddatum des Zeitraums ein, um die Historie anzusehen.
4. Um die eingestellten Inhalte zu sehen, klicken Sie die **[Anzeigen]** Taste an.
   - Die Energienavigationshistorie des eingestellten Zeitraums wird angezeigt.

Voraussichtlicher Betrieb

Die Betriebstrendfunktion ist die Funktion, um die Änderung des vergangenen Status des ausgewählten Geräts zu gewährleisten, um einen vernünftigen Standortsbetriebsplan zu unterstützen.



Gerät hinzufügen

Sie können ein Einheit hinzufügen, um den Betriebstrend anzusehen.

1. Klicken Sie im linken Menü auf **[Historie] > [Voraussichtlicher Betrieb]**.
   - Der Betriebstrend-Bildschirm wird angezeigt.
2. Klicken Sie die **[+ Einheit hinzufügen]** Taste an.
   - Der Gerät hinzufügen-Bildschirm wird angezeigt.
3. In der Liste der nichtregistrierten Geräte klicken Sie das Prüfkästchen des zu registrierenden Geräts und klicken Sie die **[◀]** Taste an.
   - Um verschiedene Geräte gleichzeitig zu registrieren, klicken Sie die Prüfkästchen der zu registrierenden Geräte an und klicken Sie die **[◀]** Taste an.
   - Die ausgewählten Geräte werden in der Liste der registrierten Geräte hinzugefügt.
4. Um es im Einheit editieren-Popup-Fenster anzuwenden, klicken Sie die **[Anwenden]** Taste an.

Informationen ansehen

Sie können die ausgewählte Betriebstrendinformation des Geräts ansehen.

1. Klicken Sie im linken Menü auf **[Historie] > [Voraussichtlicher Betrieb]**.
   - Der Betriebstrend-Bildschirm wird angezeigt.
2. Im Gerätelistentastenabschnitt wählen Sie die Kategorie des anzusehenden Geräts aus.
3. Wählen Sie den anzusehenden Zeitraum aus, um den Betriebstrend anzusehen.



Kategorie	Beschreibung
Zeitraum	**[Tag]** Taste: Wählen Sie das erwünschte Datum im Mini-Kalender aus und stellen Sie es als Basisdatum ein **[Zeitraum]** Taste: Stellen Sie das Start- und Enddatum des anzusehenden Zeitraums ein • Der anzusehende Maximalzeitraum ist 1 Woche. **[Heute]** Taste: Stellen Sie das heutige Datum als Basisdatum ein

Information aussenden

Sie können die Betriebstrendinformation des angesehenen Geräts aussenden.

1. Klicken Sie im linken Menü auf **[Historie]** > **[Voraussichtlicher Betrieb]**.
   - Der Betriebstrend-Bildschirm wird angezeigt.
2. In der linksseitigen Kategorie wählen Sie die Kategorie aus, um auszusenden und klicken Sie die **[Aussenden]** Taste auf der rechten oberen Seite.

   (Im AC Smart 5-Gerät wird es in USB gespeichert.)

Hinweis

Jedes Gerät speichert die folgenden Informationen.

- Innenraumgeräteeinheit: Betrieb, aktuelle Temperatur, Zieltemperatur, Kühleinstelltemperatur, Heizeinstelltemperatur, Betriebsart, Auslastung, PM10, PM2,5, PM1,0
- ERV: Betrieb, Modus, Aktuelle Temperatur (nur für den ERV DX), Einstellen temperatur (nur für den ERV DX), CO_2-Gehalt (nur für den ERV)
- AHU: Betrieb, Modus, Einstellen temperatur, Luftversorgungstemperatur, Luftversorgungsfeuchtigkeit, Ventilationstemperatur, Ventilationsfeuchtigkeit
- Heating: Betrieb, Wassereintrittstemperatur, Auslasswassertemperatur, Heißwassertemperatur, Einstellen temperatur, Heißwassertemp. einstellen, Modus, Heißwasserbetrieb
- Kältemaschine: Betrieb, Wassereintrittstemperatur, Auslasswassertemperatur, Modus
- DOKIT: Betrieb
- DI: Betrieb
- DO: Betrieb
- Exp.I/O-Port: Wert
- Luftreiniger : Betrieb, Geruch, PM 10, PM 2,5, PM 1,0

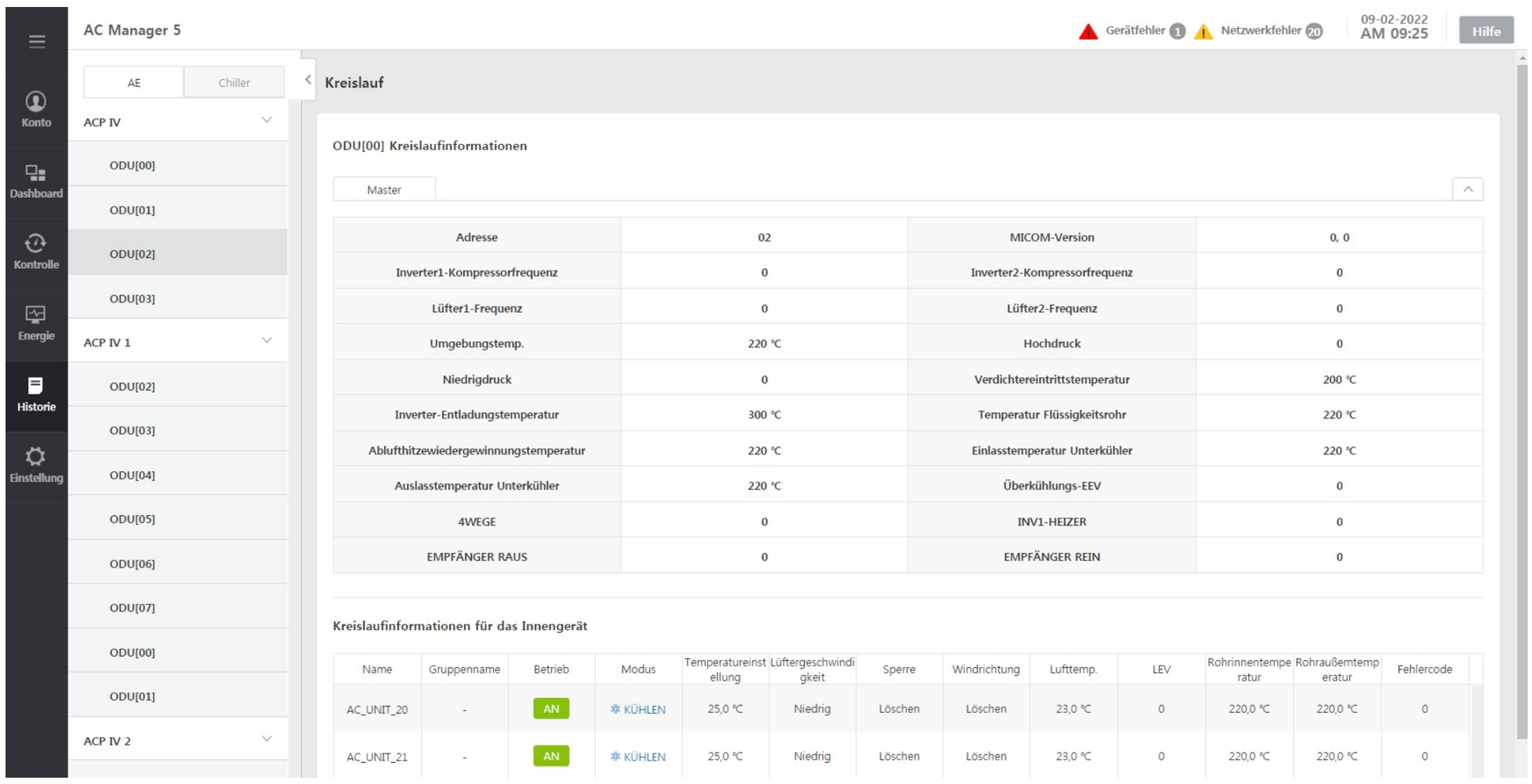
Kreislauf

Sie können die Innen-/Außengerät und die Kreislaufinformation des Kühlers ansehen.

Außengerät

Die Kreislaufinformationsdaten der ausgewählten Außengeräte werden geliefert.

1. In der linken Menütaste klicken Sie das **[Historie] > [Kreislauf]** Menü an.
   - Der Kreislauf-Bildschirm wird angezeigt.



Kategorie	Beschreibung
Kreislaufinformationen für das Außengerät	Master/Slave-Außengeräteinformationsanzeige
Kreislaufinformationen für das Innengerät	Alle Informationen der an die Außengeräte angeschlossenen Innengeräte werden angezeigt

2. In der Außengeräteliste wählen Sie die Außengeräte aus, um die Kreislaufinformation zu prüfen.
   - Die Kreislaufinformation der entsprechenden Außengeräte werden angezeigt.

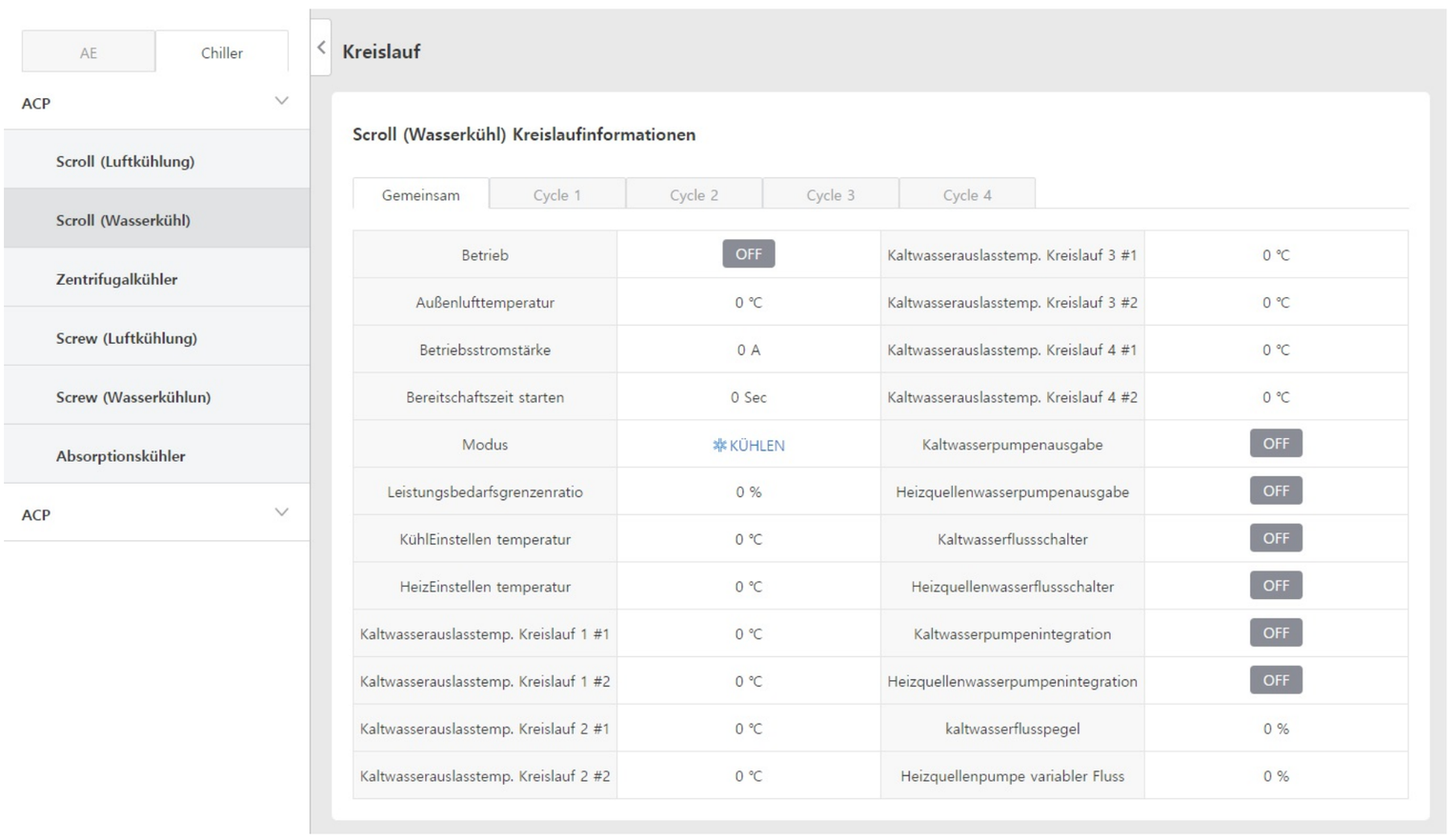
Hinweis

Sie können sie nur ansehen, wenn die Außengeräte, welche die Kreislaufinformationen gewährleisten, installiert sind.

Kältemaschine

Die Kreislaufinformationsdaten des ausgewählten Kühlers werden gewährleistet.

1. In der linken Menütaste klicken Sie das **[Historie] > [Kreislauf]** Menü an.
   - Der Kreislauf-Bildschirm wird angezeigt.
2. In der Kühler-Liste wählen Sie den Kühler aus, um die Kreislaufinformation zu prüfen.
   - Die Kreislaufinformation des entsprechenden Kühlers wird angezeigt.



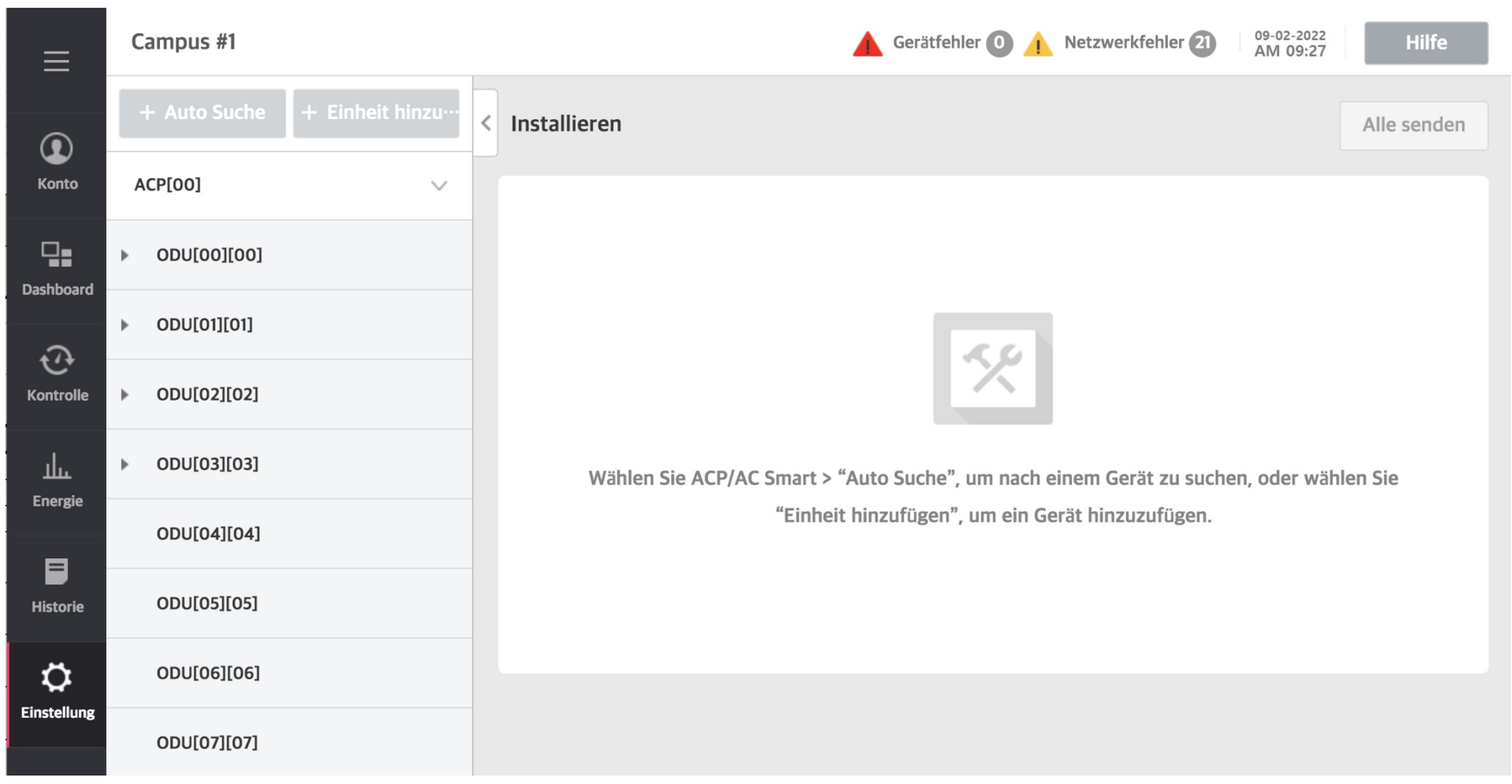
Geräteeinstellung

Sie können die ACP-Einstellung ändern, ein Gerät hinzufügen oder die Einstellungen des registrierten Geräts ändern.

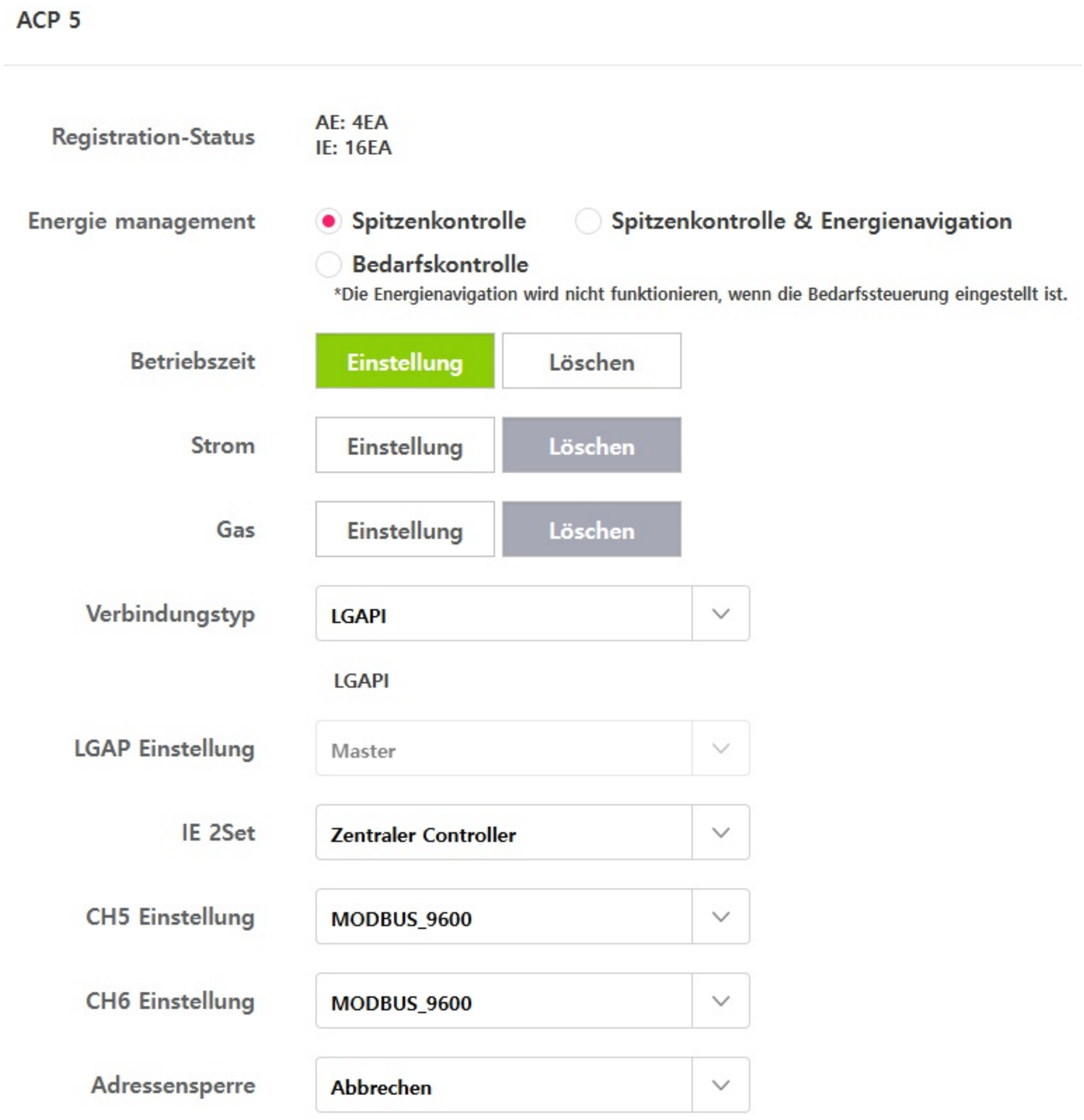
ACP bearbeiten

Sie können die ACP-Einstellung ändern.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Installieren]** Menü an.
   - Der Geräteinstellung-Bildschirm wird angezeigt.



2. Wählen Sie ACP aus der Geräteliste aus.
   - Der ACP-Bearbeitungsbildschirm wird angezeigt.
   - Im Gerätebearbeitungsbereich können Sie die ACP-Einstellungsinformationen ändern.



Kategorie	Beschreibung
Energie management	Wählen Sie zwischen Spitzensteuerung/Spitzensteuerung und Energienavigation/Bedarfssteuerung aus Wird die Bedarfsgerechte Steuerung eingestellt, ist die Energienavigation nicht in Betrieb.
Betriebszeit	Betriebszeiterfassung und -ansicht einstellen/abbrechen
Strom	Stromverbrauchbetragserfassung und -ansicht einstellen/abbrechen
Gas	Gasverbrauchbetragserfassung und -ansicht einstellen/abbrechen
Verbindungstyp	LGAPI-/LGAPII-Einstellung
LGAP-Einstellung	Kommunikations-Master/-Slave-Einstellfunktion, und diese kann nur in AC Smart aktiviert werden
IE 2Set	Drücken Sie die Taste **[▲]/[▼]**, um den Hauptagenten des IE 2Set auszuwählen Zentrale Steuerung/Innenraumgeräteeinheit
Kanal 5-Einstellung	Drücken Sie auf die **[▼]**-Taste, um den Kommunikationstyp des Geräts auszuwählen, das an den CH5-Port angeschlossen werden soll • LGAP_AHU: für RLT-Anschluss (allgemein, nur Frischluft, Abwärmenutzung) • MODBUS_9600, MODBUS_19200: für AHU (modulare Klimaanlage, modular nur Frischluft, DOAS), Exp.I/O und Kühleranschluss
Kanal 6-Einstellung	Drücken Sie auf die **[▼]**-Taste, um den Kommunikationstyp des Geräts auszuwählen, das an den CH6-Port angeschlossen werden soll • MODBUS_9600, MODBUS_19200: für AHU (modulare Klimaanlage, modular nur Frischluft, DOAS), Exp.I/O und Kühleranschluss
Adresssperre	Falls diese Einstellung vorgenommen wird, können Sie die Adresse der Innenraumgeräteeinheit und der ERV nicht ändern

Hinweis

Einige Modelle unterstützen kein LGAPII.

3. Wird die Eingabe abgeschlossen, klicken Sie die **[Anwenden]** Taste.
4. Klicken Sie die **[Alle senden]** Taste an.

Automatische Einstellung

Sie können das mit ACP verbundene Gerät automatisch suchen und registrieren.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Installieren]** Menü an.
   - Der Geräteinstellung-Bildschirm wird angezeigt.
2. Wählen Sie in der Geräteliste ACP aus, und klicken Sie auf die **[Auto Suche]**-Taste.
3. Um die ACP-Geräteeinstellung in der vorhandenen Einstellung zu überschreiben, klicken Sie auf die **[Prüfen]**-Taste.

- Der ACP-Geräteeinstellungsstatus wird angewendet.

4. Nachdem die automatische Einstellung abgeschlossen wurde, klicken Sie vor dem Bearbeiten des Geräts auf die **[Alle senden]**-Taste.

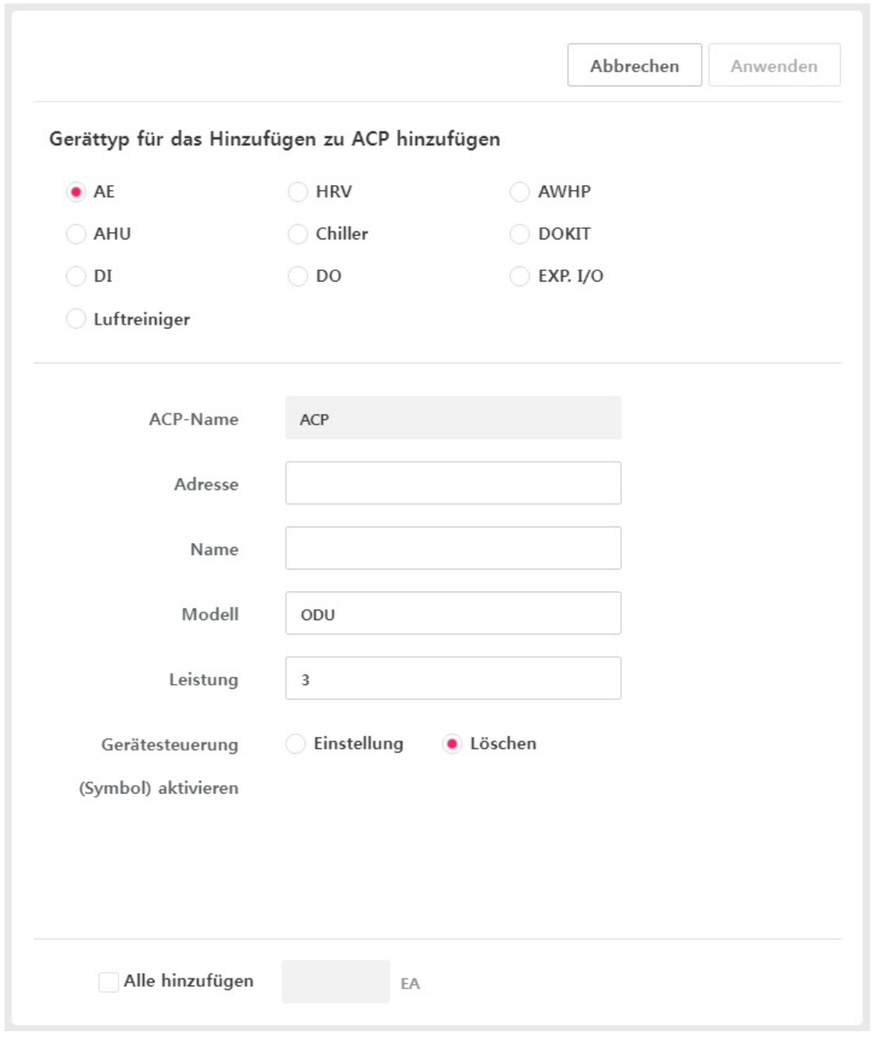
Hinweis

- **Die automatische Einstellung erfordert ca. 10 Minuten.**
- **Einige AHU (modulare Klimaanlage, modular nur Frischluft, DOAS), Kühler und Exp.I/O unterstützen keine automatische Einstellfunktion.**
- **Exp.I/O wird aktiviert, falls Sie nach der Geräteregistrierung im Gerätebearbeitungsfenster die Option „Verwenden“ aktivieren.**

Gerät hinzufügen

Sie können zusätzlich ein neues Gerät zur Geräteliste hinzufügen.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Installieren]** Menü an.
   - Der Geräteinstellung-Bildschirm wird angezeigt.
2. Klicken Sie die **[+ Einheit hinzufügen]** Taste an.
   - Der Gerät hinzufügen-Bildschirm wird angezeigt.



3. In der Geräteliste wählen Sie die Gruppe der oberen Ebene aus, um ein Gerät hinzuzufügen.
   - Falls Sie ACP in der Geräteliste auswählen, können Sie das Außengerät, die ERV, Heating, das Gerät, den Kühler, das EIN-/AUS-Gerät, DI, DO und Exp.I/O hinzufügen.
   - In der Geräteliste, wenn ein Außengerät ausgewählt wird, können Sie nur Innengeräte hinzufügen.
4. Im Geräte hinzufügen-Abschnitt tragen Sie die Einstellungsinformation des hinzuzufügenden Geräts ein.
   - Entsprechend dem ausgewählten Gerät wird die Einstellungskategorie entsprechend dem entsprechenden Gerät unterschiedlich angezeigt. Für die Einstellungsinformation jedes Geräts beziehen Sie sich auf die nächste Seite.
5. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.
6. Um die Gerätehinzufügung abzuschließen, klicken Sie die **[Alle senden]** Taste an.

Gerät bearbeiten

Sie können ein registriertes Gerät in der Geräteliste ändern.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Installieren]** Menü an.
   - Der Geräteinstellung-Bildschirm wird angezeigt.
2. Wählen Sie das zu bearbeitende Gerät aus der Geräteliste aus.
3. Der Geräteinstellung-Bildschirm wird angezeigt.
4. Geräteeinstellinformationen bearbeiten.
   - Entsprechend dem ausgewählten Gerät wird die Einstellungskategorie entsprechend dem entsprechenden Gerät unterschiedlich angezeigt. Für die Einstellungsinformation jedes Geräts beziehen Sie sich auf die nächste Seite.
5. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.
6. Um die automatische Einstellung abzuschließen, klicken Sie auf die **[Alle senden]**-Taste.

Gerät löschen

In der Geräteliste können Sie ein registriertes Gerät löschen.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Installieren]** Menü an.

- Der Geräteinstellung-Bildschirm wird angezeigt.

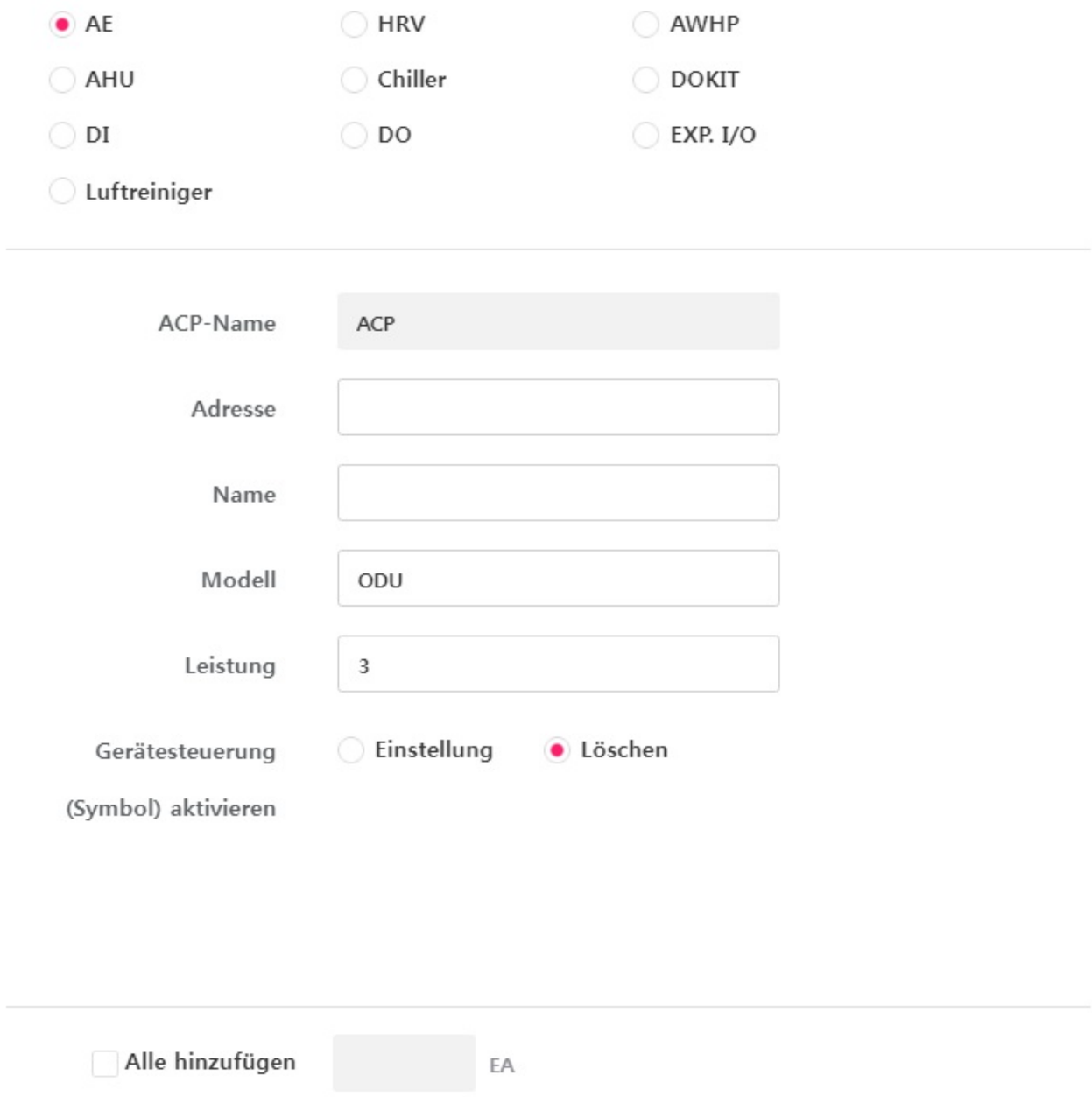
2. In der Gruppenliste wählen Sie die zu löschende Gruppe aus und klicken Sie die **[Löschen]** Taste an.
3. Wenn das Gruppe löschen-Popup-Fenster erscheint, klicken Sie die **[Ja]** Taste.
   - In der Gruppenliste wird die ausgewählte Kategorie gelöscht.
4. Um die Gerätelöschung abzuschließen, klicken Sie die **[Alle senden]** Taste an.

Informationen für jedes Gerät einstellen

Die Informationen für jedes Gerät werden eingestellt, wie folgt.

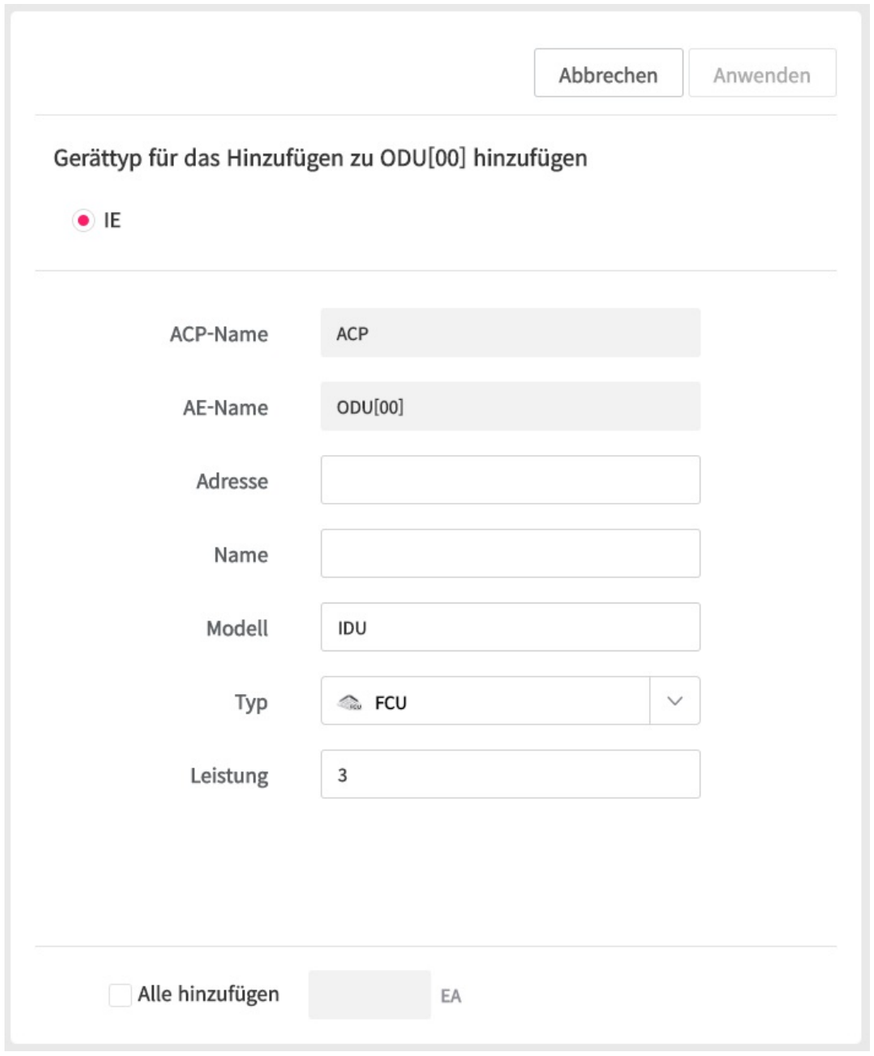
- Außengerät
- IE
- ERV
- Heating
- AHU
- Kältemaschine
- DOKIT
- DI/DO
- EXP.I/O
- Untere Einstellbegrenzung von Exp.I/O
- Luftreiniger

Außengerät



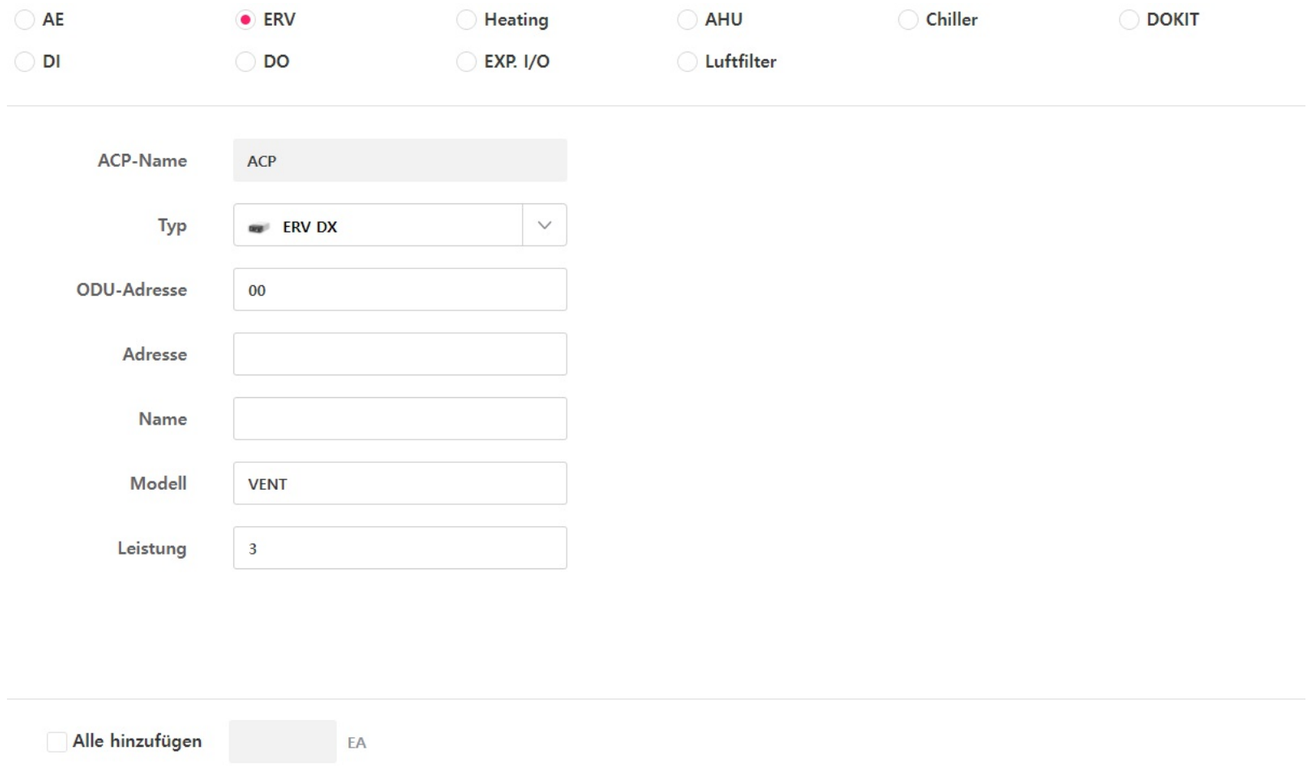
Kategorie	Beschreibung
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
Adresse	Geräteadresse
Name	Im System anzuzeigender Gerätename • Für das Stapelhinzufügen wird dieser als “Name_Geräteadresse”-Form angezeigt
Modell	Produktmodellname
Kapazität	Produktkapazität
Gerätesteuerung (Symbol) aktivieren	Legen Sie fest, ob das ODU-Gerätesymbol aktiviert werden soll • Das Außengerät wird in der Gruppeneinstellung, Gerätesteuerung, Gerätefehler und Betriebsverlauf nur angezeigt, wenn die Außengerätesteuerung (Symbol) aktiviert ist.
Alle hinzufügen	Werden die Prüfkästchen ausgewählt, werden alle ausgewählten Geräte hinzugefügt

IE



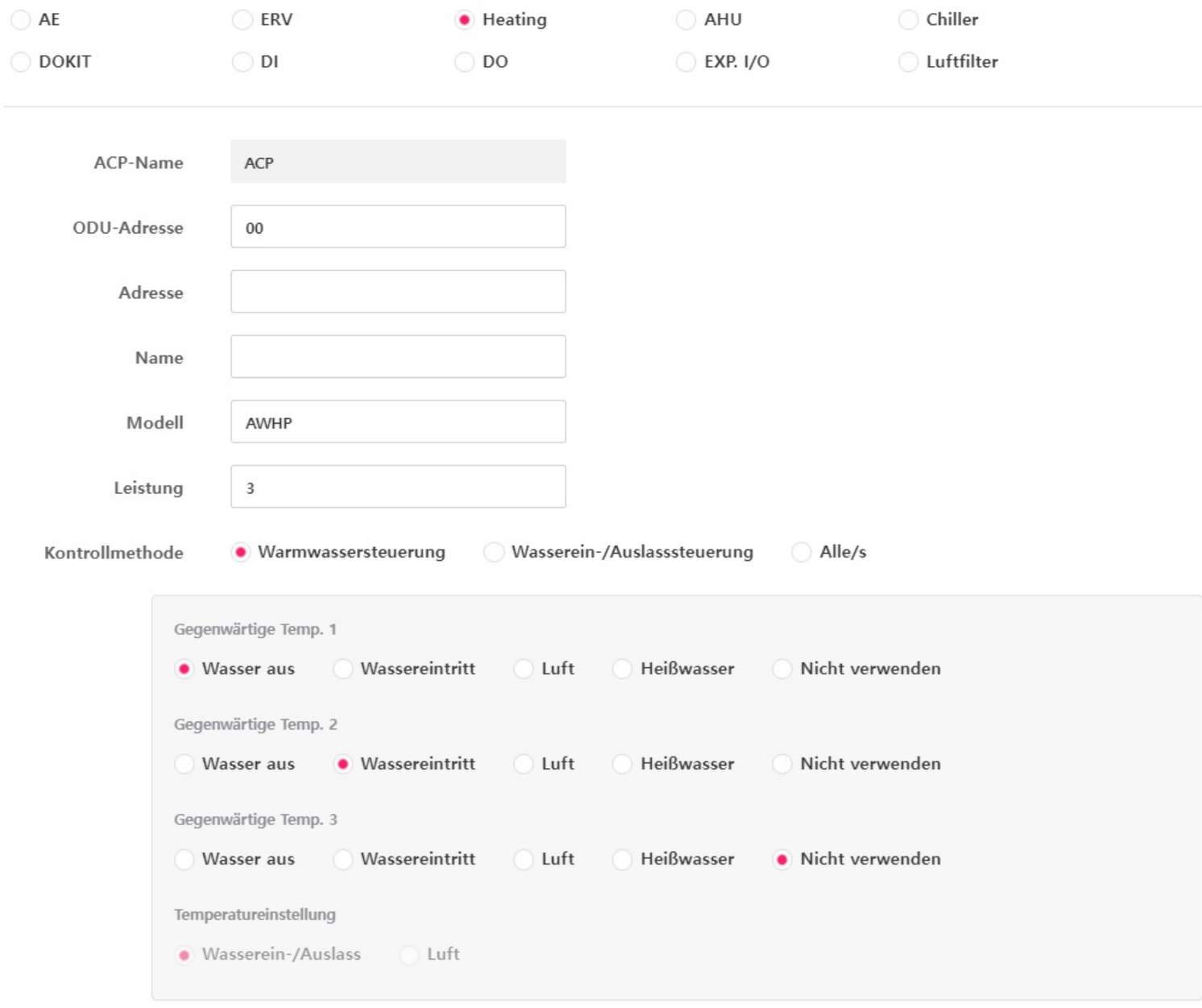
Kategorie	Beschreibung
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
AE-Name	Name des ans entsprechende Gerät angeschlossenen Außengerätes
Adresse	Geräteadresse
Name	Im System anzuzeigender Gerätename • Für das Stapelhinzufügen wird dieser als “Name_Geräteadresse”-Form angezeigt
Modell	Produktmodellname
Typ	Innengerätetypenauswahl
Kapazität	Produktkapazität
Alle hinzufügen	Werden die Prüfkästchen ausgewählt, werden alle ausgewählten Geräte hinzugefügt

ERV



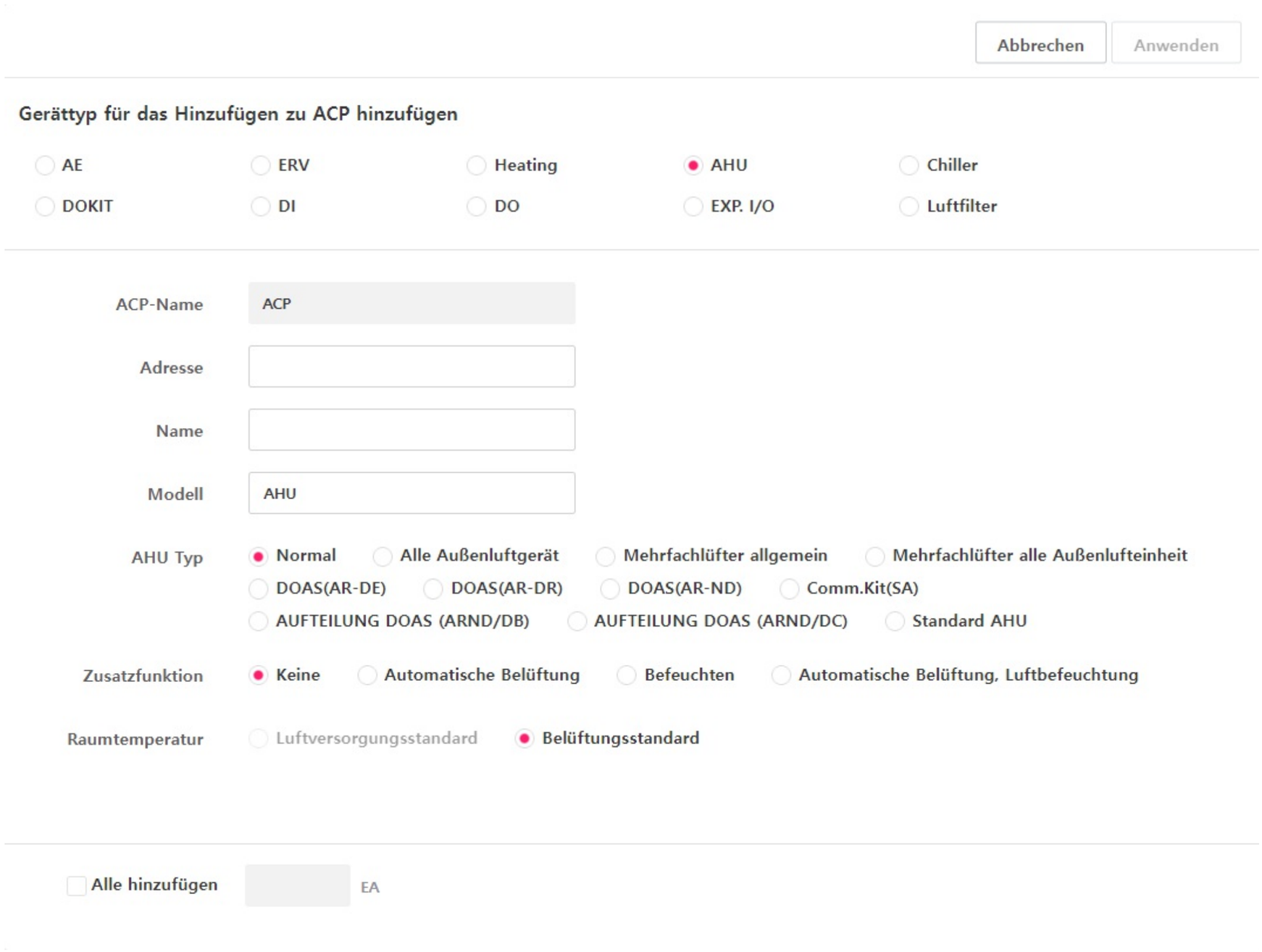
Kategorie	Beschreibung
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
ODU-Adresse	Geräteadresse der angeschlossenen Außeneinheit • Aktivierung bei ERV DX / Podlahové větrání
Typ	ERV stypenauswahl
Adresse	Geräteadresse
Name	Im System anzuzeigender Gerätename • Für das Stapelhinzufügen wird dieser als “Name_Geräteadresse”-Form angezeigt
Modell	Produktmodellname
Kapazität	Produktkapazität
Alle hinzufügen	Werden die Prüfkästchen ausgewählt, werden alle ausgewählten Geräte hinzugefügt

Heating



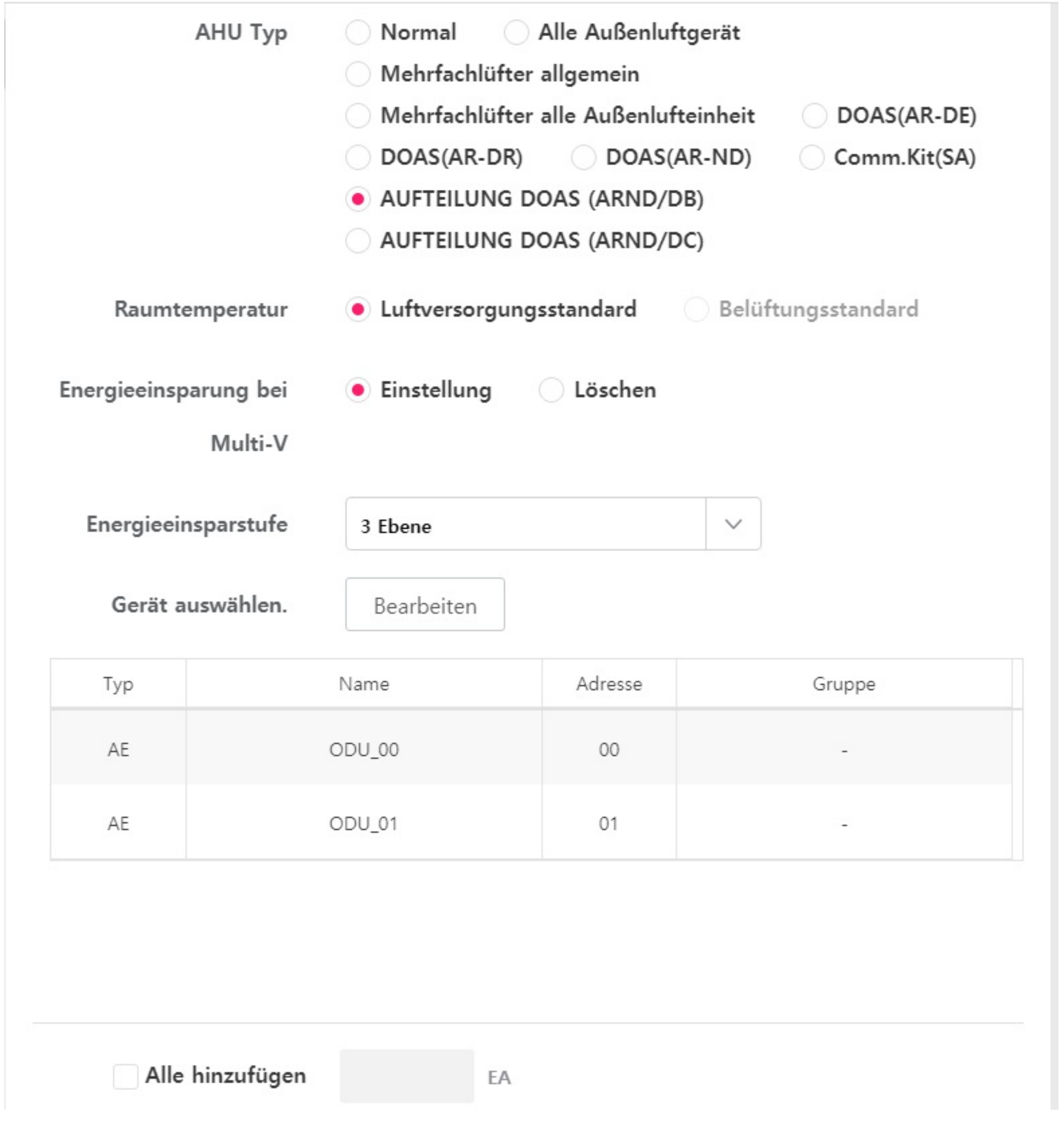
Kategorie	Beschreibung
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
ODU-Adresse	Geräteadresse der angeschlossenen Außeneinheit
Adresse	Geräteadresse
Name	Im System anzuzeigender Gerätename • Für das Stapelhinzufügen wird dieser als “Name_Geräteadresse”-Form angezeigt
Modell	Produktmodellname
Kapazität	Produktkapazität
Kontrollmethode	Steuerungsmethode auswählen
Gegenwärtige Temp. 1	Typ der zuerst anzuzeigenden aktuellen Temperatur
Gegenwärtige Temp. 2	Typ der als zweites anzuzeigenden aktuellen Temperatur
Gegenwärtige Temp. 3	Typ der als drittes anzuzeigenden aktuellen Temperatur
Einstellen temperatur	Typ der zu steuernden eingestellten Temperatur
Alle hinzufügen	Werden die Prüfkästchen ausgewählt, werden alle ausgewählten Geräte hinzugefügt

AHU



Kategorie	Beschreibung
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
Adresse	Geräteadresse
Name	Im System anzuzeigender Gerätename • Für das Stapelhinzufügen wird dieser als “Name_Geräteadresse”-Form angezeigt
Modell	Produktmodellname
AHU-Typ	AHU-Typ auswählen
Zusatzfunktion	Hinzuzufügende Funktion auswählen
Raumtemperatur	Zwischen der Luftversorgung oder der Ventilation wählen Sie den erwünschten Innenraumtemperatureinstellungsstandard aus
Alle hinzufügen	Werden die Prüfkästchen ausgewählt, werden alle ausgewählten Geräte hinzugefügt

Ineinandergreifende Energieeinsparungssteuerung bei Multi-V festlegen.



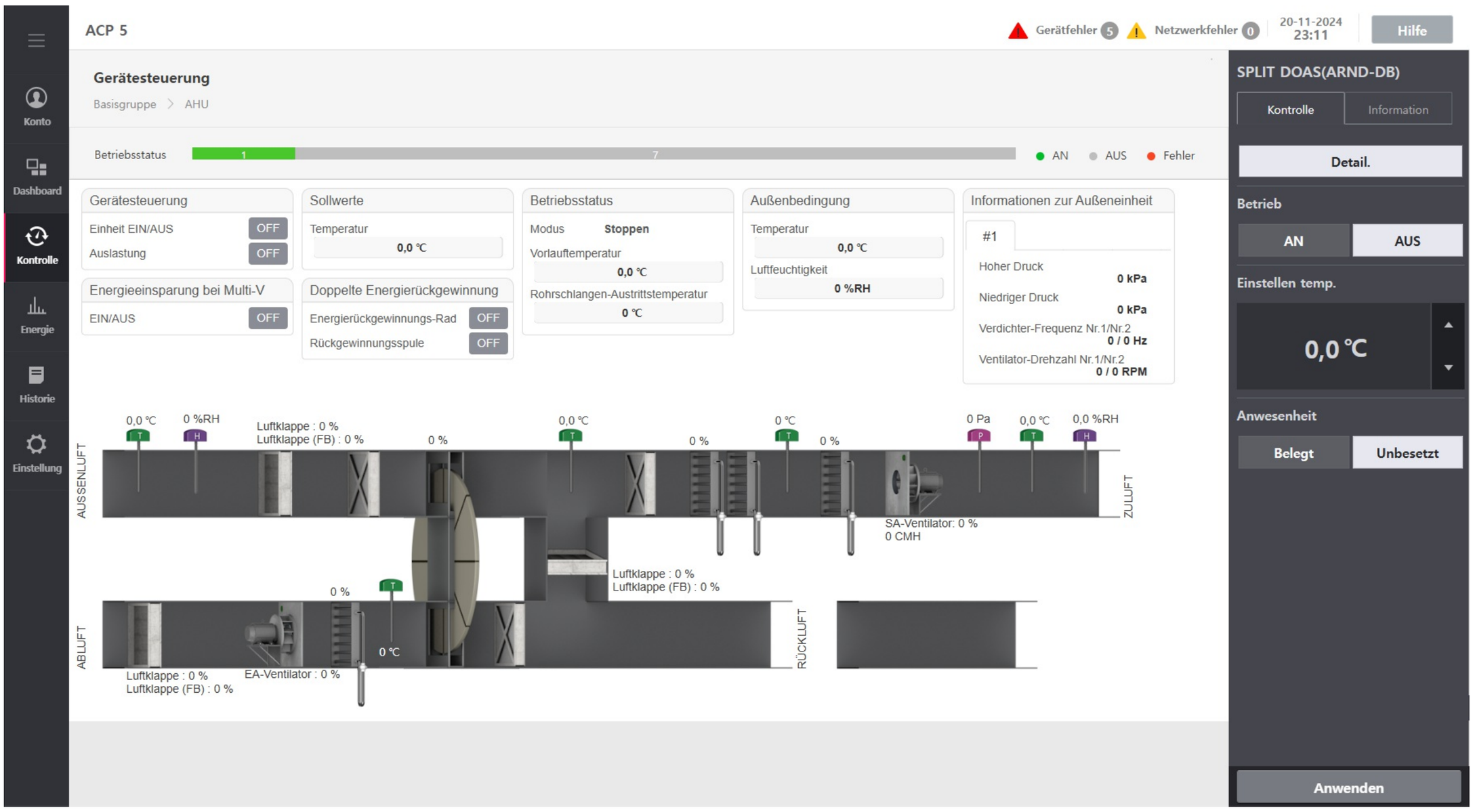
Kategorie	Beschreibung
Ineinandergreifende Energieeinsparungssteuerung bei Multi-V festlegen.	Ineinandergreifende Energieeinsparungssteuerung bei Multi-V aktivieren/deaktivieren. • Bei Festlegen der ineinandergreifenden Energieeinsparungssteuerung werden die Funktionen Energieeinsparstufe und Geräteauswahl aktiviert.
Energieeinsparstufe	Sie können die Energieeinsparstufe in Stufen 1~3 auswählen.
Ein Gerät auswählen.	Ein Außengerät auswählen, bei dem ineinandergreifende Energieeinsparungssteuerung bei Multi-V angewendet werden soll.

Hinweis

- **Bei ineinandergreifender Energieeinsparungssteuerung bei Multi-V steht nur SPLIT DOAS (ARND/DB) zur Verfügung.**
- **Wenn ineinandergreifende Energieeinsparungssteuerung bei Multi-V in Betrieb ist, werden die Hauptrohrschlange, die Neuerwärmungsrohrschlange und das Energierückgewinnungs-Rad möglicherweise automatisch ein- und ausgeschaltet.**

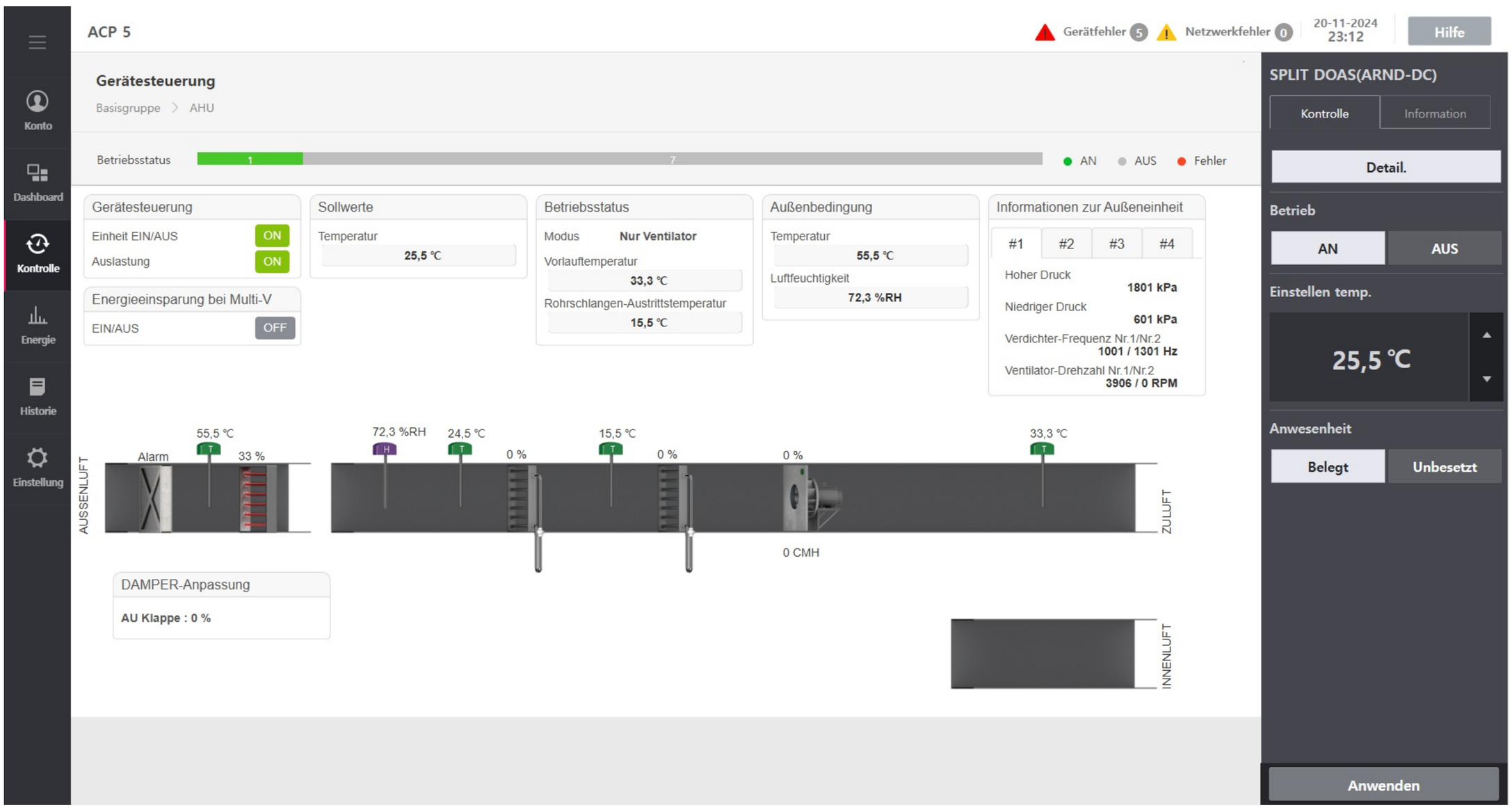
Ineinandergreifende Energieeinsparungssteuerung bei Multi-V

SPLIT DOAS(ARND/DB)



Element	Beschreibung
Details anzeigen	Um detaillierte Informationen anzuzeigen, auf die Schaltfläche **[View Details]** klicken (Nicht verfügbar bei Mobilgeräten).
Betriebsstatus	• Schaltfläche **[Betrieb starten]**: Grätebetrieb starten • Schaltfläche **[Betrieb beenden]**: Gerätebetrieb beenden
Zieltemperatur	Um die Zieltemperatur festzulegen, auf die Schaltfläche **[▲]/[▼]**
Belegt	Funktion zur Festlegung des Raumes, der von DOAS als belegt oder als frei verwaltet wird. • Schaltfläche **[Belegt]**: Auf Belegt stellen • Schaltfläche **[Frei]**: Auf Frei stellen

SPLIT DOAS(ARND/DC)



Element	Beschreibung
Details anzeigen	Um detaillierte Informationen anzuzeigen, auf die Schaltfläche **[View Details]** klicken (Nicht verfügbar bei Mobilgeräten).
Betriebsstatus	• Schaltfläche **[Betrieb starten]**: Grätebetrieb starten

	• Schaltfläche **[Betrieb beenden]**: Gerätebetrieb beenden
Zieltemperatur	Um die Zieltemperatur festzulegen, auf die Schaltfläche **[▲]/[▼]**
Belegt	Funktion zur Festlegung des Raumes, der von DOAS als belegt oder als frei verwaltet wird. • Schaltfläche **[Belegt]**: Auf Belegt stellen • Schaltfläche **[Frei]**: Auf Frei stellen

Ineinandergreifende Energieeinsparungssteuerung bei Multi-V

Dies ist eine Funktion zur Steuerung der DOAS- und Multi-V-Betriebsmodi auf Basis des Betriebsstatus von Multi-V und Innen- und Außen-Lufttemperatur / Luftfeuchtigkeit, um Energie beim System einzusparen.

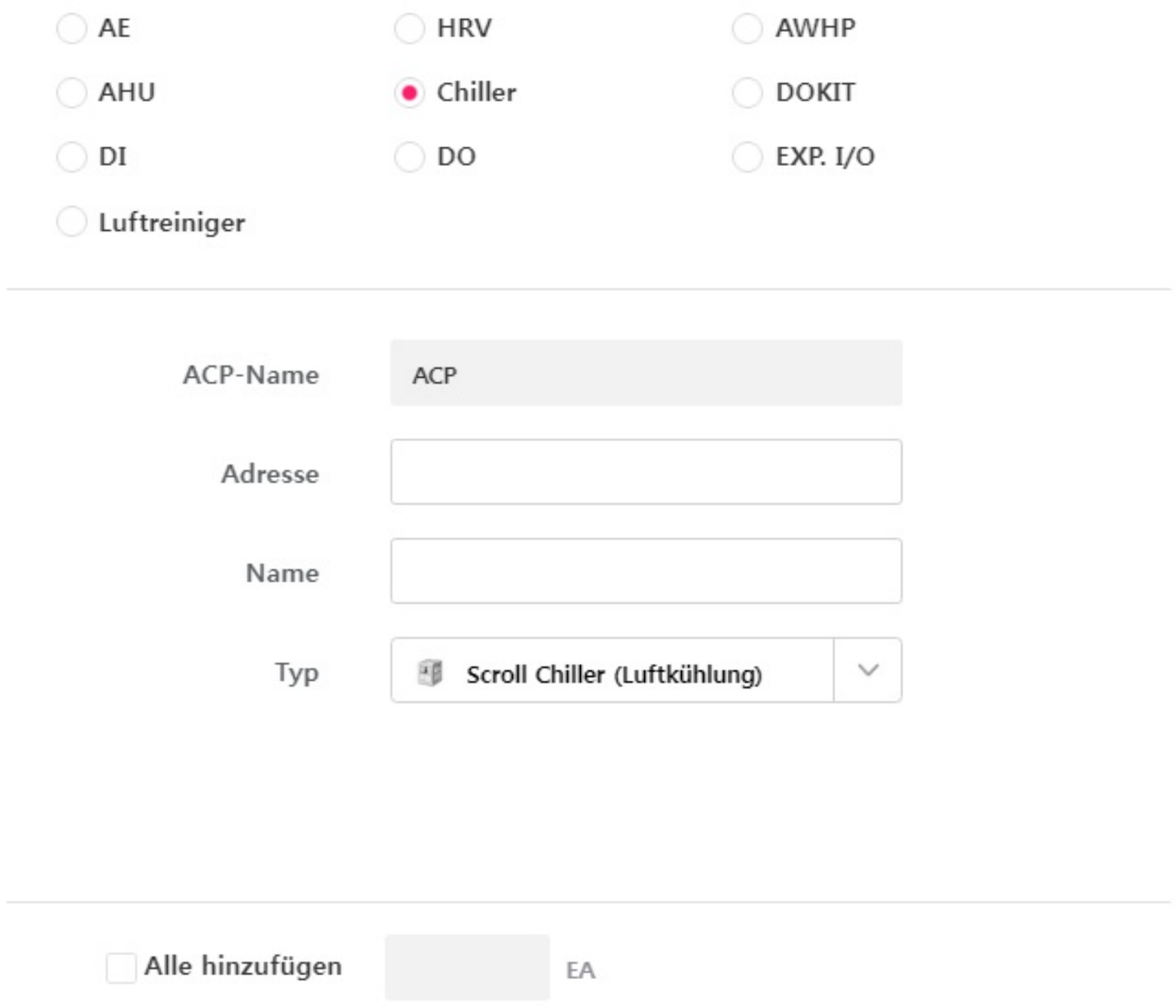
Betrieb zur Energieeinsparung ist nur möglich unter annehmbaren Innenraum-Konditionen (bei Kühlbetrieb Temperaturen von 28℃ oder niedriger und relative Luftfeuchtigkeit von 60% oder geringer).. Der Frischegrad und das Maß der Energieeinsparung kann je nach Wunsch angepasst werden.

Hinweis

- **Um ineinandergreifende Energieeinsparungssteuerung bei Multi-V zu benutzen, brauchen Sie einen DOAS Sensor für Innenraum-Luftfeuchtigkeit.**
- **Betrieb zur Energieeinsparung ist nur möglich, wenn DOAS im Kühlmodus oder Entfeuchtungsmodus ausgeführt wird und alle Inneneinheiten im Kühlbetrieb sind.**
- **Energieeinsparstufe: Je näher Sie der Stufe 3 kommen, desto schwächer wird Entfeuchtung und desto stärker ist die Energieeinsparung.**

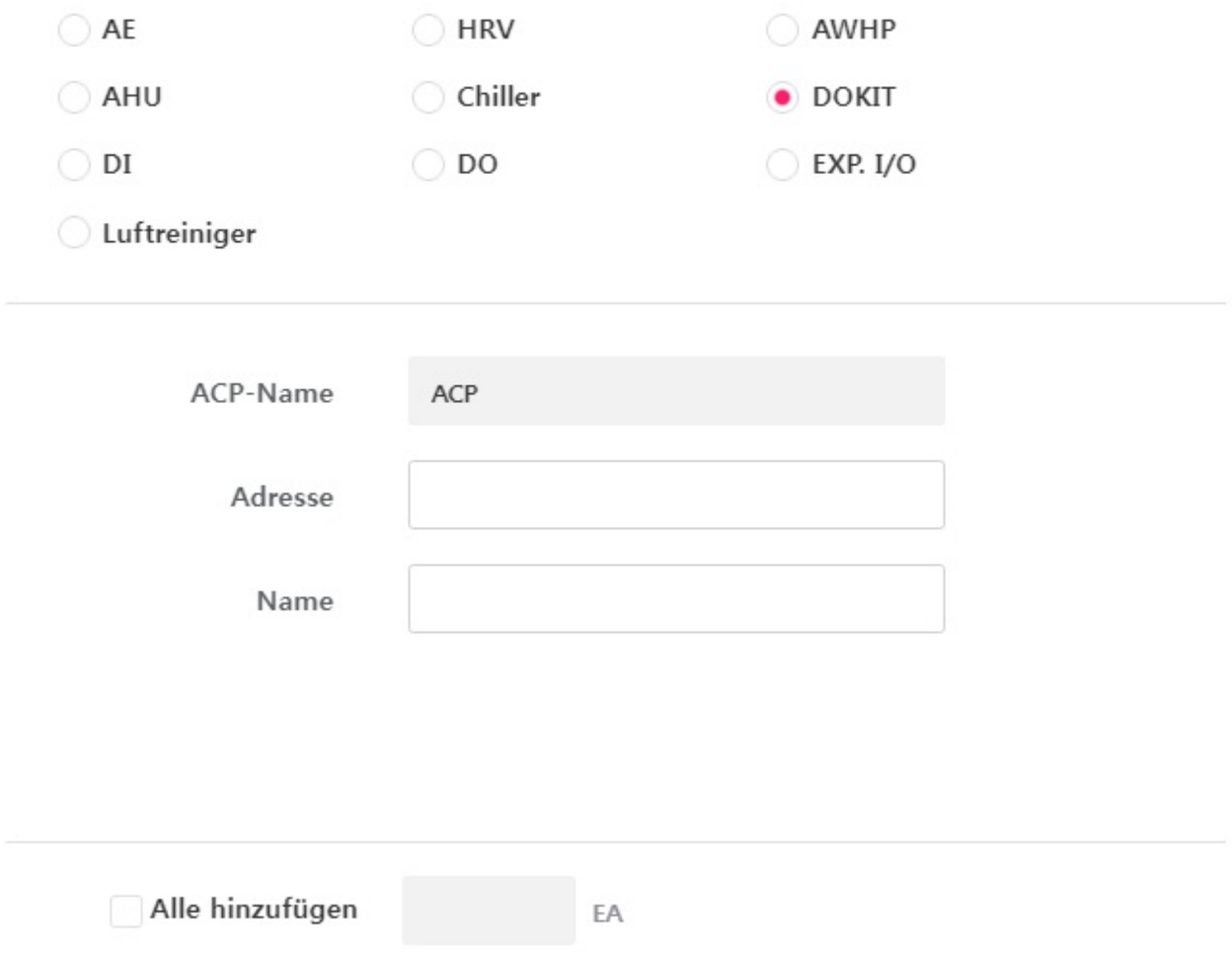
➔ Ineinandergreifende Energieeinsparungssteuerung bei Multi-V festlegen

Kältemaschine



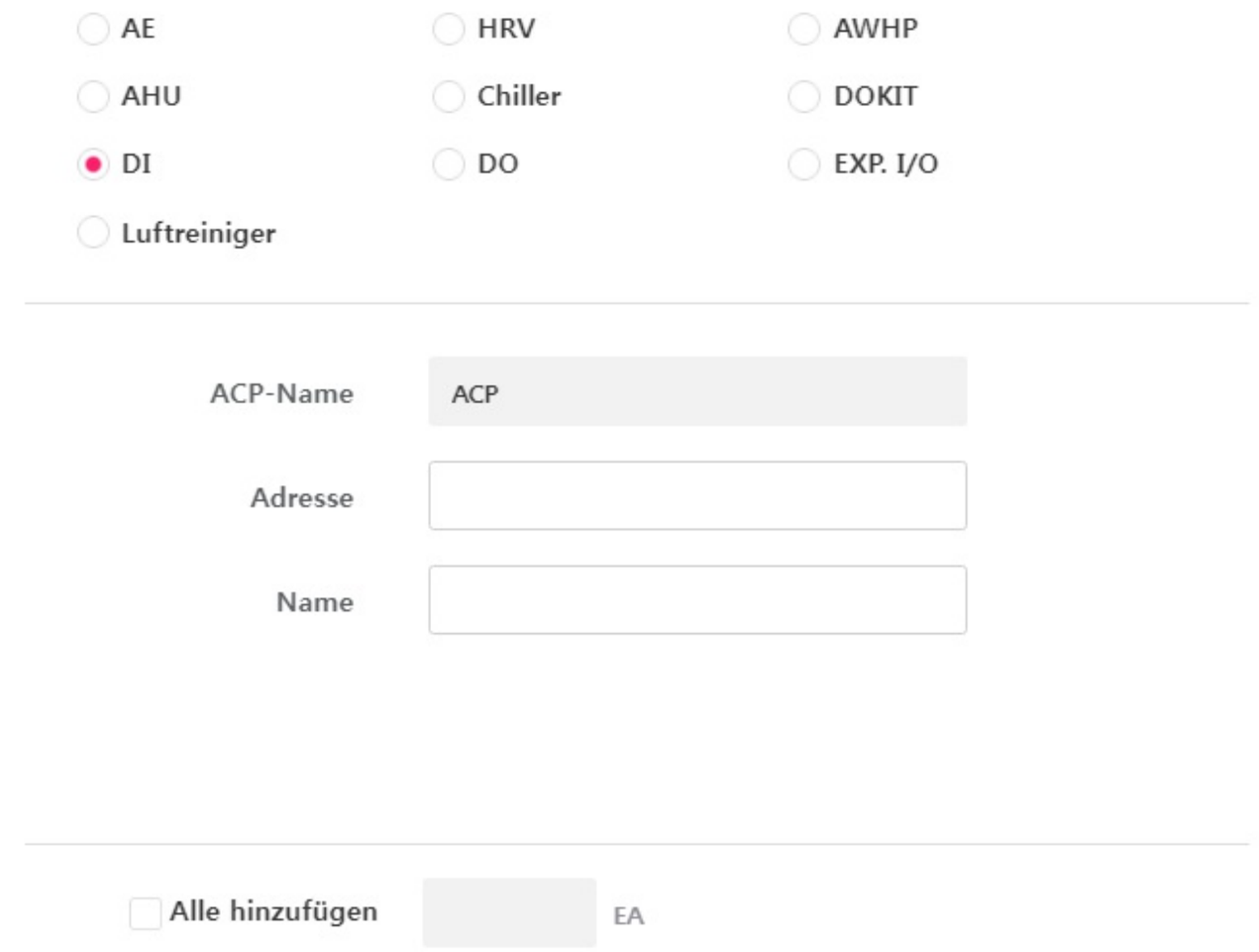
Kategorie	Beschreibung
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
Adresse	Geräteadresse
Name	Im System anzuzeigender Gerätename • Für das Stapelhinzufügen wird dieser als “Name_Geräteadresse”-Form angezeigt
Typ	Kühlertyp auswählen
Alle hinzufügen	Werden die Prüfkästchen ausgewählt, werden alle ausgewählten Geräte hinzugefügt

DOKIT



Kategorie	Beschreibung
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
Adresse	Geräteadresse
Name	Im System anzuzeigender Gerätename • Für das Stapelhinzufügen wird dieser als “Name_Geräteadresse”-Form angezeigt
Alle hinzufügen	Werden die Prüfkästchen ausgewählt, werden alle ausgewählten Geräte hinzugefügt

DI/DO

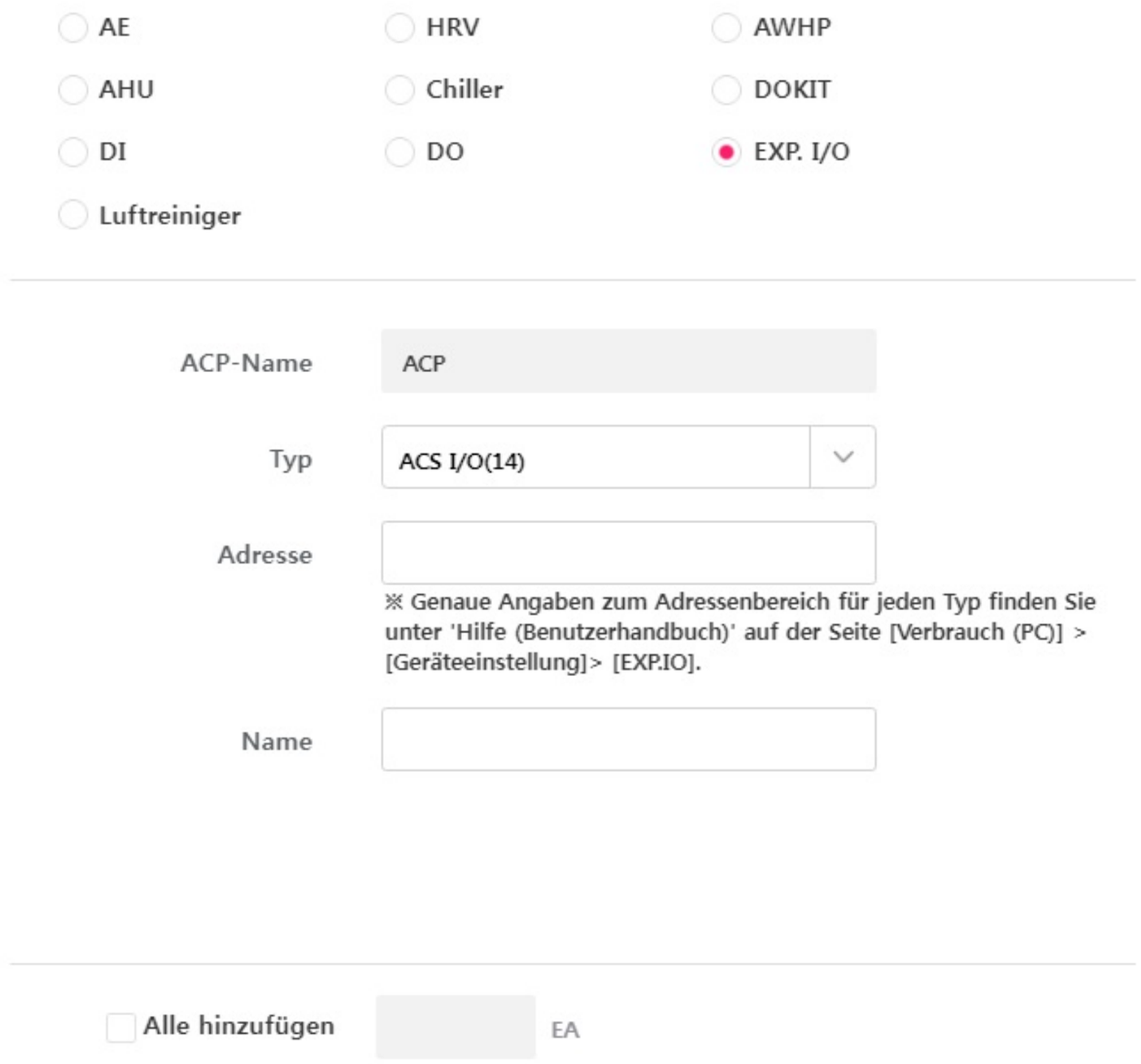


Kategorie	Beschreibung
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
Adresse	Geräteadresse
Name	Im System anzuzeigender Gerätename • Für das Stapelhinzufügen wird dieser als “Name_Geräteadresse”-Form angezeigt
Alle hinzufügen	Werden die Prüfkästchen ausgewählt, werden alle ausgewählten Geräte hinzugefügt

Hinweis

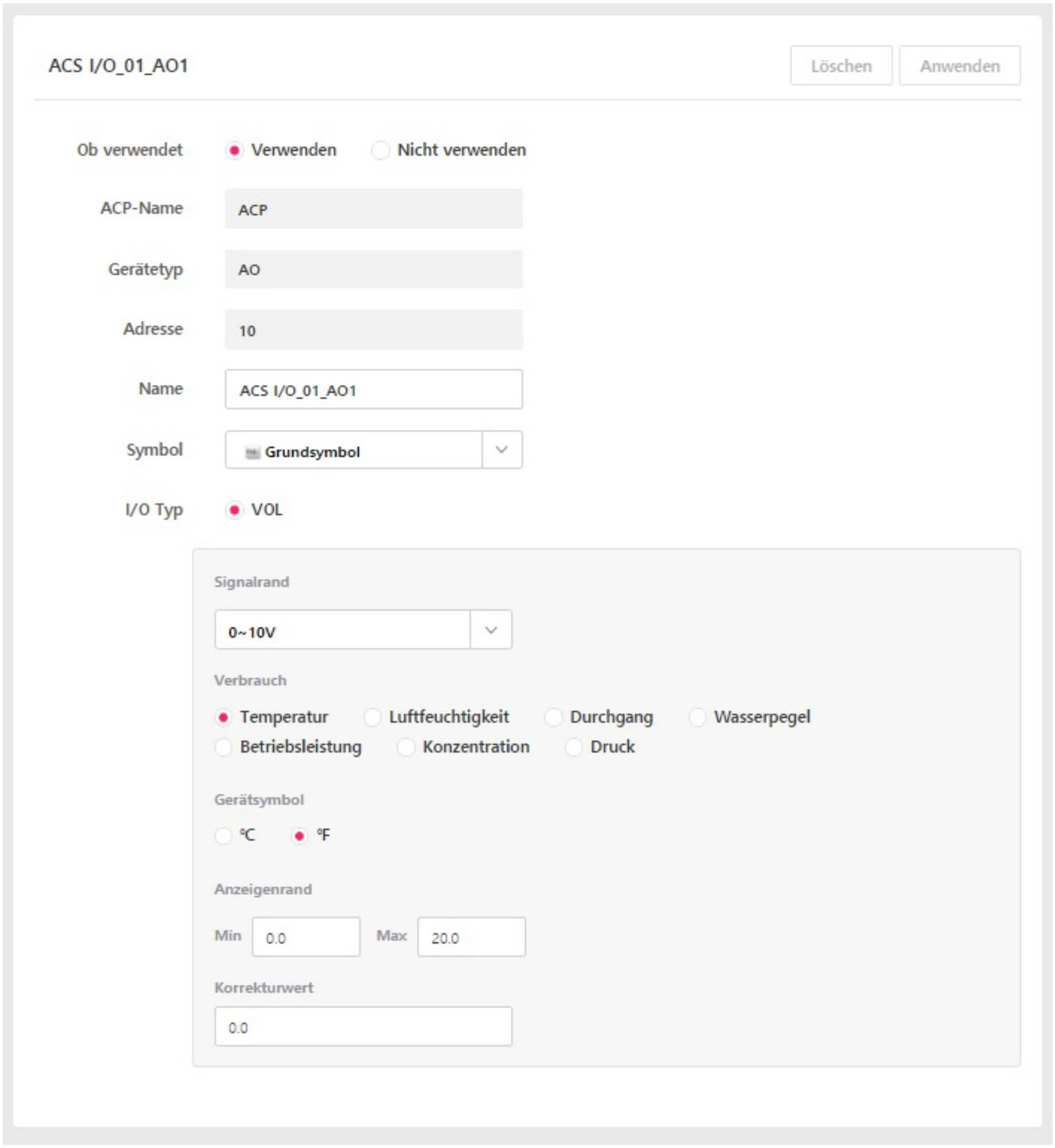
- Port DI1 ist nur für Notfallzwecke und kann nicht für andere Zwecke konfiguriert werden.
- Port DI1 muss immer im offenen Status sein außer in Notfallsituationen.
- Wird Port DI1 kurzgeschlossen, erklingt ein Alarmsignal, und alle Geräte, die am Port angeschlossen sind, werden gestoppt.

EXP.I/O



Kategorie	Beschreibung
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
Typ	Gerätetyp auswählen
Adresse	Geräteadresse • Adressbereich von ACS I/O : 01 ~ F7 • Adressbereich von ACU UIO : 60 ~ 67 • Adressbereich von ACU UI : 70 ~ 77 • Adressbereich von ACU UO : 80 ~ 87
Name	Im System anzuzeigender Gerätename • Für das Stapelhinzufügen wird dieser als “Name_Geräteadresse”-Form angezeigt
Alle hinzufügen	Werden die Prüfkästchen ausgewählt, werden alle ausgewählten Geräte hinzugefügt

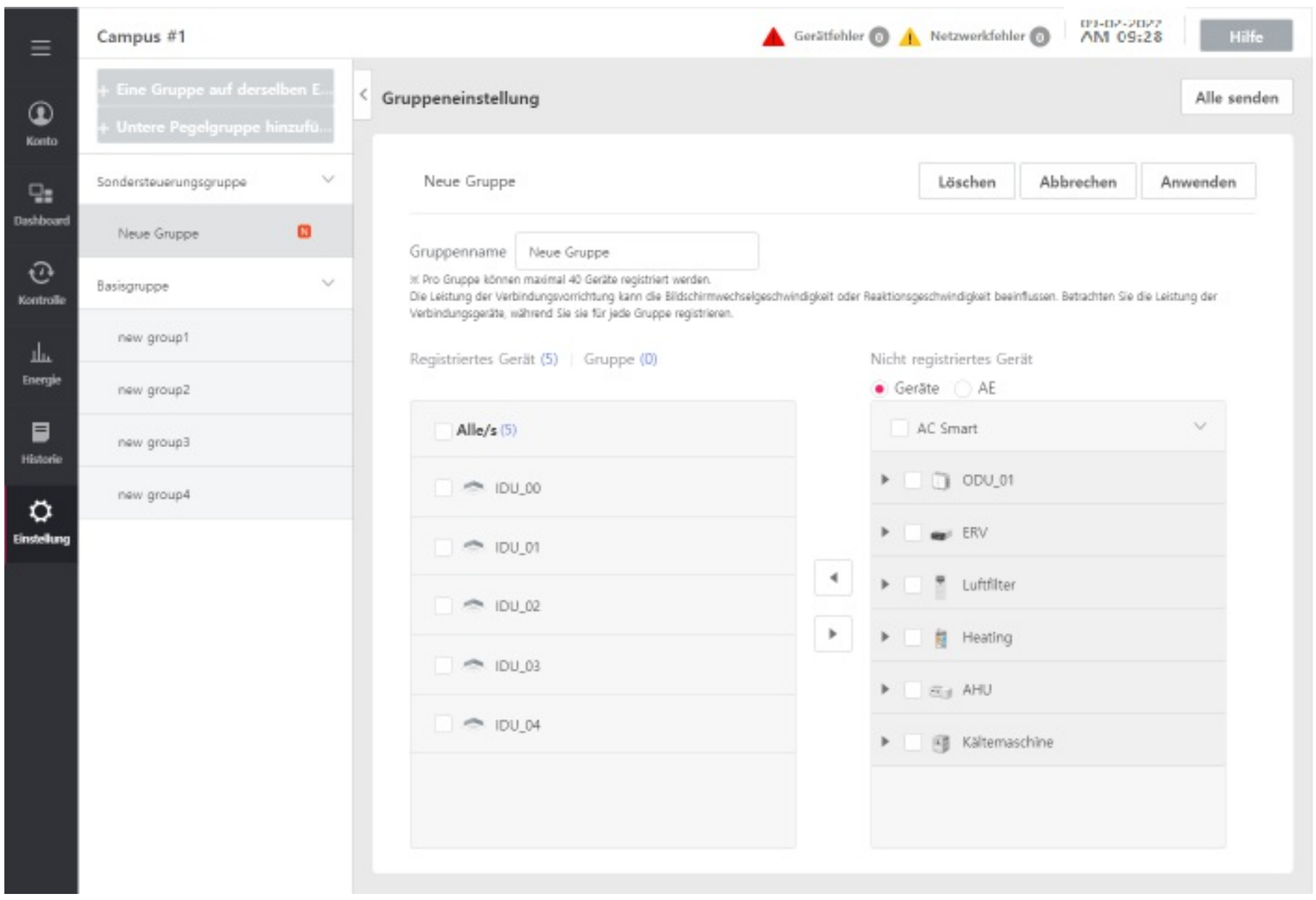
Untere Einstellbegrenzung von Exp.I/O



Kategorie	Beschreibung
Ob verwendet	Auswählen, ob ein Gerät benutzt wird
ACP-Name	Der ACP-Name des entsprechenden Geräts der oberen Ebene
Gerätetyp	Gerätetyp
Adresse	Geräteadresse
Name	Gerätename
Symbol	Symboltyp auswählen
I/O Typ	Wählen Sie einen I/O Typ • AO: VOL • UI: BI, VOL, CUR, PT1000, NTC10K, NI1000(Wenn der Typ von EXP.I / O jedoch ACU UIO, ACU UI ist, wählbar zwischen BI und VOL) • DO: BI • DI: BI
Signalgrenze	Signalgrenze auswählen
Verbrauch	Geräteverbrauch auswählen (die Verbrauchsauswahl unterscheidet sich je nach E/A-Typ) • Statusinformation: An/Aus, Kurz/Offen, Warnung/Normal, Geschlossen/Geöffnet, An/Aus, besetzt/nicht besetzt, 1/0 • Wertinformationen: Temperatur, Luftfeuchtigkeit, Durchgang, Wasserpegel, Betriebsleistung, Konzentration, Druck
Gerätesymbol	Gerätesymbol auswählen Die Flexibilität hat sich entsprechend der Verbrauchsauswahl geändert
Anzeigenrand	Max./Min. Werteingabe
Korrekturwert	Korrekturwerteingabe

Gruppeneinstellung

Sie können die entsprechend des Verbrauchs des Benutzers erstellte Verwaltungsgruppe hinzufügen/löschen.



Gruppe hinzufügen

Sie können eine neue Gruppe hinzufügen.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Gruppeneinstellung]** Menü an.
   - Der Gruppeneinstellung-Bildschirm wird angezeigt.
2. Wählen Sie eine Gruppe und klicken Sie auf die Schaltfläche für Gruppe hinzufügen.
   - Um eine Untergruppe zu bilden, wählen Sie **[+ Add Sub-group]**
   - Um eine Gruppe auf derselben Ebene zu bilden, wählen Sie **[+ Add Same-level Group]**
3. Geben Sie den Gruppennamen ins Gruppennameneingabefeld ein.
4. Um ein neues Gerät in die Geräteliste zu registrieren, klicken Sie in der Liste der nicht registrierten Geräte das Prüfkästchen des zu registrierenden Geräts an und klicken Sie die **[◀]** Taste an.
5. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.
6. Um die Gruppenhinzufügung abzuschließen, klicken Sie die **[Alle senden]** Taste an.

Gruppenbearbeitung

Sie können eine Gruppe bearbeiten.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Gruppeneinstellung]** Menü an.
   - Der Gruppeneinstellung-Bildschirm wird angezeigt.
2. Wählen Sie eine zu bearbeitende Gruppe aus der Gruppenliste aus.
3. Gruppeninformationen bearbeiten.
4. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.
5. Um die Gruppenhinzufügung abzuschließen, klicken Sie die **[Alle senden]** Taste an.

Gruppe löschen

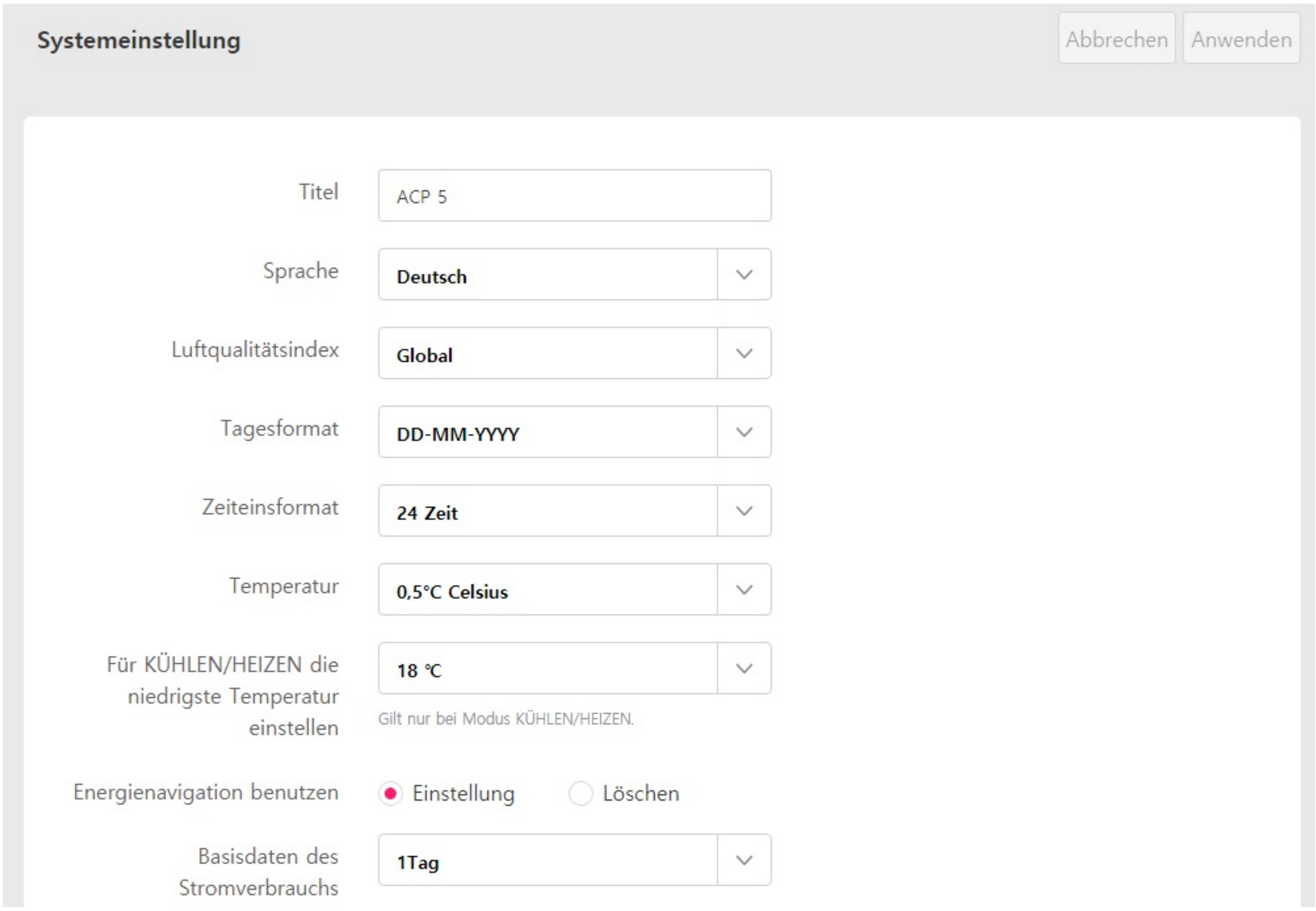
In der Gruppenliste können Sie die gewünschte Gruppe auswählen und löschen.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Gruppeneinstellung]** Menü an.
   - Der Gruppeneinstellung-Bildschirm wird angezeigt.
   - In der Gruppenliste wählen Sie die zu löschende Gruppe aus und klicken Sie die **[Löschen]** Taste an.
2. Wenn das Gruppe löschen-Popup-Fenster erscheint, klicken Sie die **[Ja]** Taste.
   - Die ausgewählte Gruppe wurde gelöscht.
3. Um die Gruppenlöschung abzuschließen, klicken Sie die **[Alle senden]** Taste an.

Systemeinstellung

Sie können die Systemeinstellung ändern.

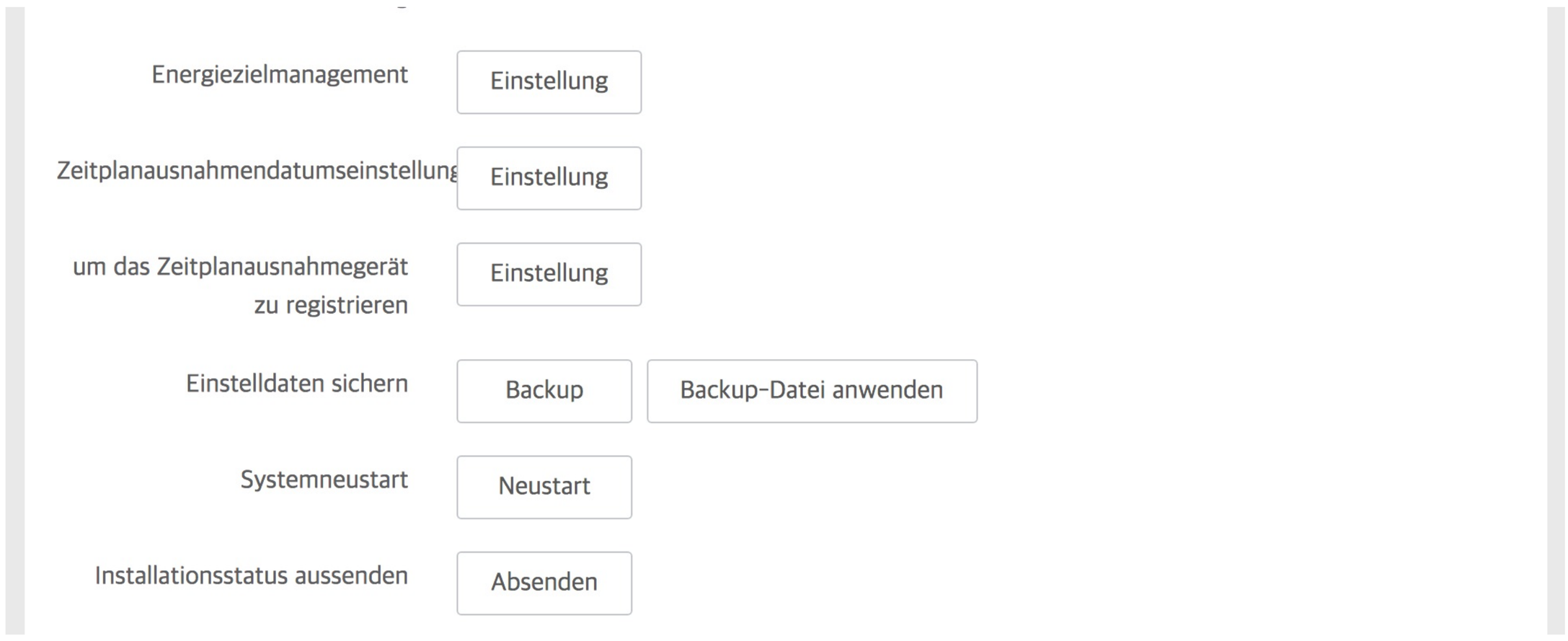
1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Systemeinstellung]** Menü an.
   - Der Systemeinstellung-Bildschirm wird angezeigt.
2. Stellen Sie das System ein.



Kategorie	Beschreibung
Titel	Tragen Sie den erwünschten Namen ins Eingabefeld ein
Sprache	Drücken Sie die Taste **[▼]**, um die gewünschte Sprache auszuwählen (한국어/ English/ Español/ Português/ Italiano/ Deutsch/ Türkçe/ Polski/ русский/ Français/ 中文/ Čeština/ Українська)
Luftqualitätsindex	Wählen Sie das Referenzland für die Feinstaubanzeige. (한국/Global/USA/中国/India)
Tagesformat	Tagesformat kann eingestellt werden. (YYYY-MM-DD / MM-DD-YYYY / DD-MM-YYYY)
Zeiteinsformat	Zeiteinsformat kann eingestellt werden. (12 / 24)
Temperatur	Drücken Sie die Taste **[▲]/[▼]**, um die gewünschte Temperatureinheit (Celsius 0,5℃/Celsius 1℃/Fahrenheit 1℉) auszuwählen
Für KÜHLEN/HEIZEN die niedrigste Temperatur einstellen	Drücken Sie auf die **[▼]**-Taste, um die gewünschte untere Temperaturbegrenzung für Kühlung/Heizung auszuwählen (16℃/18℃)
Energienavigation benutzen	Wählen Sie aus, ob die Energienavigation benutzt werden soll
Basisdatum der Energienavigation	Drücken Sie die **[▼]** Taste, um das erwünschte Datum auszuwählen • Energienavigation für die monatliche Energieverbrauchsmenge der Basisdatumseinstellung • Berechnen Sie die Tage vom eingestellten Datum im nächsten Monat auf einen Tag früher

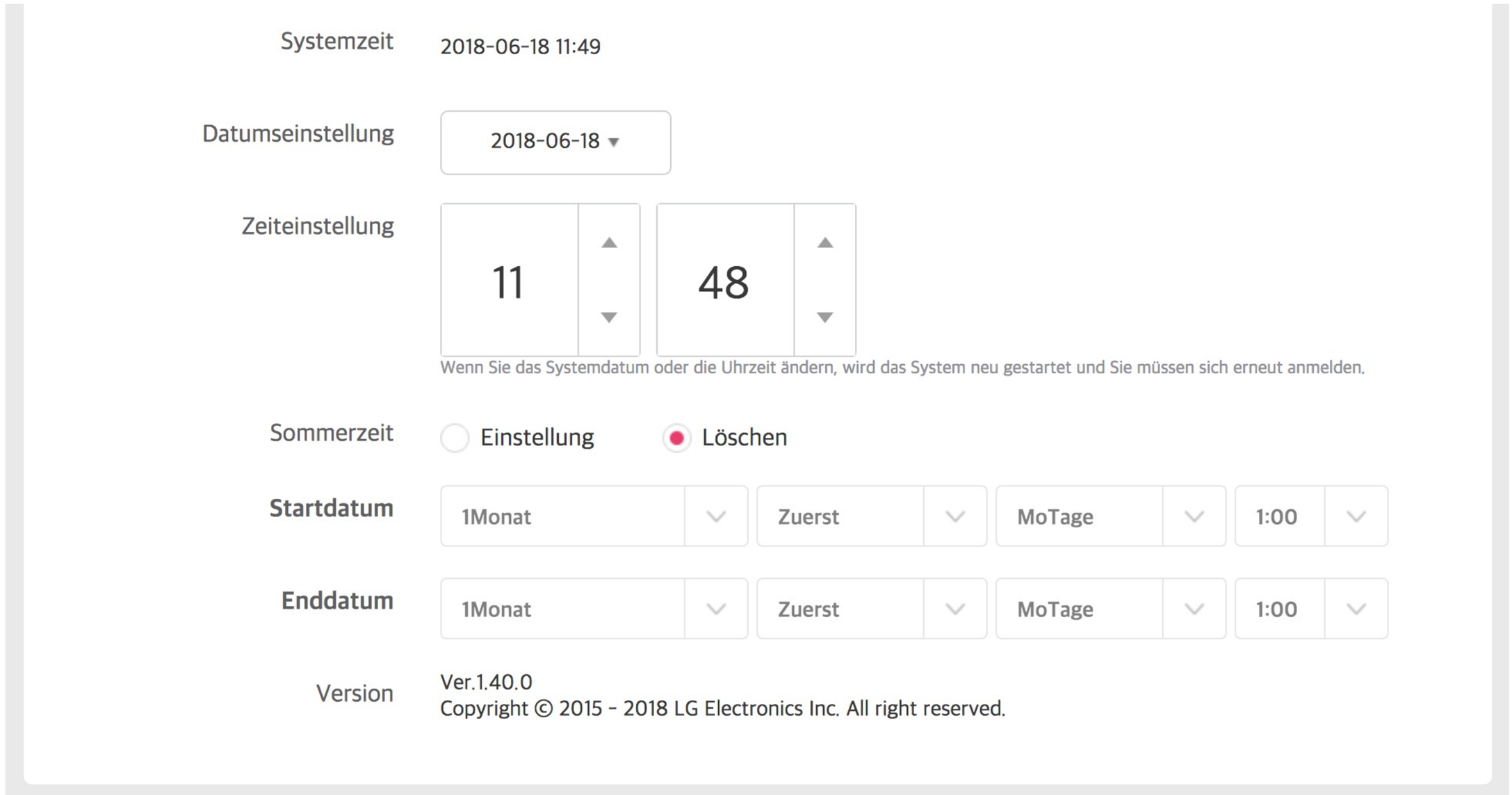


Kategorie	Beschreibung
'Zeichnung' benutzen	Wählen Sie aus, ob die 'Zeichnung' benutzt werden soll
CO_2-Gehalt-Widget benutzen	Falls es eingestellt ist, wird das Dashboard-CO_2-Gehalt-Widget aktiviert
Komfort-Widget benutzen	Falls es eingestellt ist, wird das angenehme Widget aktiviert
Feinstaub-Widget benutzen	Falls es eingestellt ist, wird das Feinstaub-Widget aktiviert
Widget für AI Driving Status benutzen	Bei Einschalten dieser Funktion wird auf dem Dashboard das Widget für AI Driving Status aktiviert.
Verwendung des kooperativen Kontroll-Widgets	Wenn Sie diese Option festlegen, wird kooperativen Kontroll-Widgets auf dem Dashboard aktiviert.
Verwendung des Kältemittelleck-Widgets	Wenn Sie diese Option festlegen, wird Kältemittelleck-Widgets auf dem Dashboard aktiviert.
Automatische Umschaltung und Temperaturgrenze aktivieren	Aktiviert die automatische Zentralsteuerung und die Temperaturbegrenzungsfunktion.
Damper-Öffnungsformel anwenden	• Wählen Sie aus, ob die Verdampfer-Öffnungsformel angewandt werden soll • Wird die Verdampfer-Öffnung eingestellt, funktioniert sie bei OA=EA und OA+MIX=90
Komfort - Jahreszeiten-Einstellung	Winter-/Sommer-Einstellung für die Annehmlichkeitsberechnung Falls Sommer eingestellt ist, wird der angenehme Bereich bei niedrigeren Temperaturen gebildet



Kategorie	Beschreibung
Energiezielmanagement	Zielenergiemengeneinstellung für die Energieverwaltung (Dashboard)
Zeitplanausnahmendatumseinstellung	Stellen Sie das Ausnahmedatum für die Zeitplaneinstellung ein
um das Zeitplanausnahmegerät zu registrieren	Stellen Sie das Gerät ein, um es im Voraus aus der Zeitplaneinstellung auszunehmen
Einstelldaten sichern	• Backup: Sicherung der Daten auf einen PC (Im AC Smart 5-Gerät wird es in USB gespeichert.) • Backup-Datei anwenden für die Datensicherung: überschreiben der Daten mit Datensicherungsdatei, die auf einen PC

	gespeichert wird
Systemneustart	Starten Sie das gesamte System erneut
Installationsstatus aussenden	Installationsstatus auf PC speichern (Im AC Smart 5-Gerät wird es in USB gespeichert.)



Kategorie	Beschreibung
Systemzeit	Systemzeit prüfen
Datumseinstellung	Sie können das Datum einstellen.
Zeiteinstellung	Die aktuelle Uhrzeit kann eingestellt werden.
Sommerzeit	Einstellung/Abbruch des Sommerzeitstart- und -enddatums
Version	Die Version kann geprüft werden.

3. Wird die Einstellung abgeschlossen, klicken Sie die **[Anwenden]** Taste an.

- Ausnahmetag festlegen
- Ausnahmedatum löschen
- Registrieren Sie das Zeitplanausnahmegerät

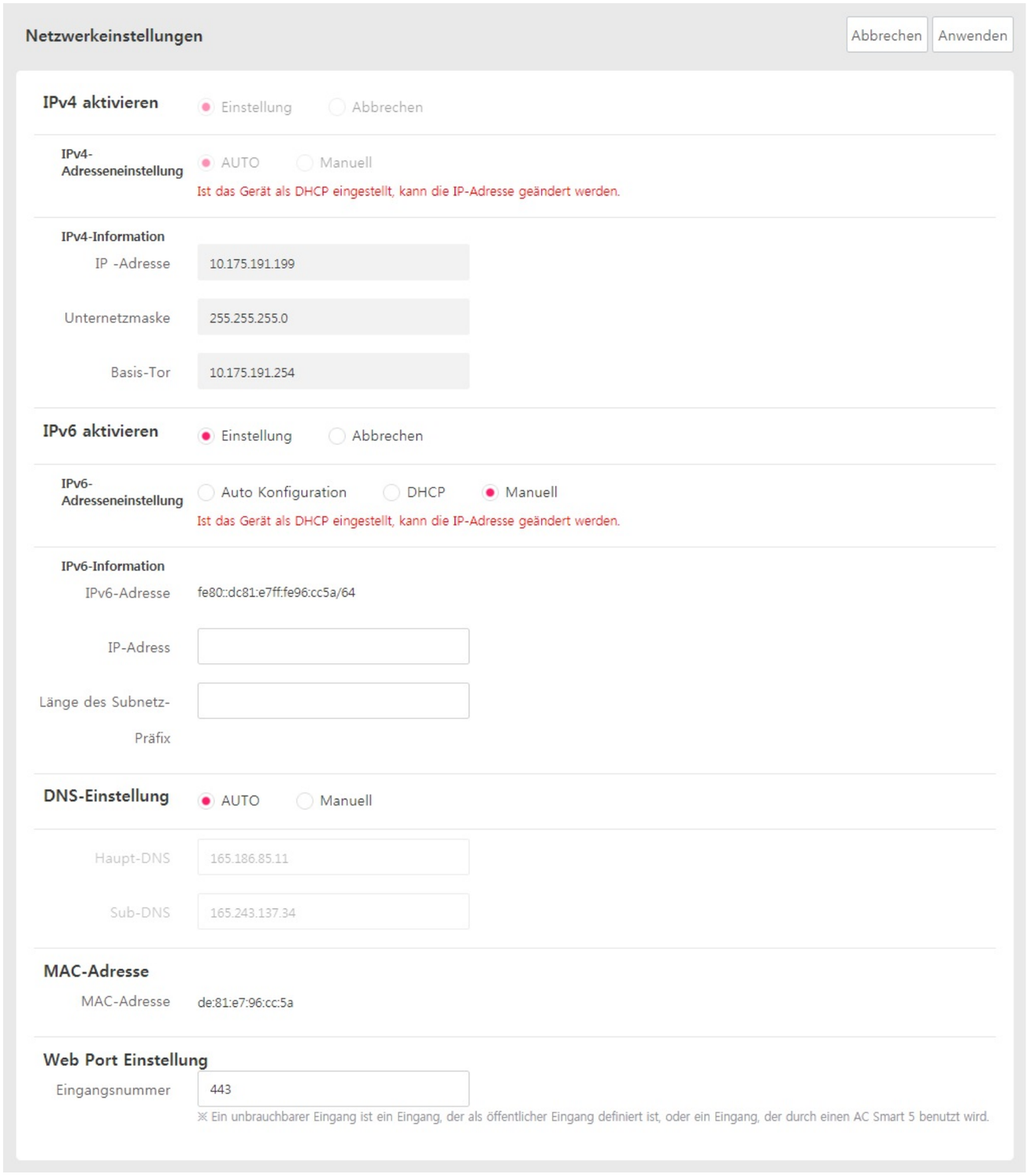
Hinweis

- **Falls die Systemzeit oder das Systemdatum geändert werden, kann eine Abmeldung erfolgen, so dass Sie sich erneut anmelden müssen.**

Netzwerkeinstellungen

Sie können die Netzwerkinformation einstellen oder ändern.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Netzwerkeinstellungen]** Menü an.
   - Der Netzwerkeinstellung-Bildschirm wird angezeigt.
2. Stellen Sie die Netzwerksinformation ein.



Kategorie	Beschreibung
IPv4 aktivieren	IPv4-Verwendungsadresse **Einstellung/Abbrechen**
IPv4-Adresseinstellung	Überprüfen Sie die IPv4-Adresseinstellung **AUTO(DHCP)/Manuell** Wenn Sie AUTO(DHCP) benutzen, wechselt möglicherweise die IP-Adresse. Darum empfehlen wir, die IP-Adresse manuell festzulegen.
IPv4-Information	IPv4-Adresse überprüfen
IPv6 aktivieren	IPv6-Verwendungsadresse **Einstellung/Abbrechen**
IPv6-Adresseinstellung	Überprüfen Sie die IPv6-Adresseinstellung **Auto Konfiguration/DHCP/Manuell** Wenn Sie DHCP benutzen, wechselt möglicherweise die IP-Adresse. Darum empfehlen wir, die IP-Adresse manuell festzulegen oder automatisch zuordnen zu lassen.
IPv6-Information	IPv6-Adresse überprüfen
DNS-Einstellung	**[AUTO]**: Stellt die Haupt-DNS und Sekundär-DNS automatisch ein **[Manuell]**: Der Benutzer stellt die Haupt-DNS und die Sekundär-DNS ein
MAC-Adresse	MAC-Adresse überprüfen
Web Port Einstellung	Eingangseinstellung (Umfang: 443, 1024~49151)

Hinweis

Die Netzwerkeinstellungen können am Gerät festgelegt werden, und nur einige Einstellungen können über das Web geändert werden.

3. Wird die Einstellung abgeschlossen, klicken Sie die **[Anwenden]** Taste an.

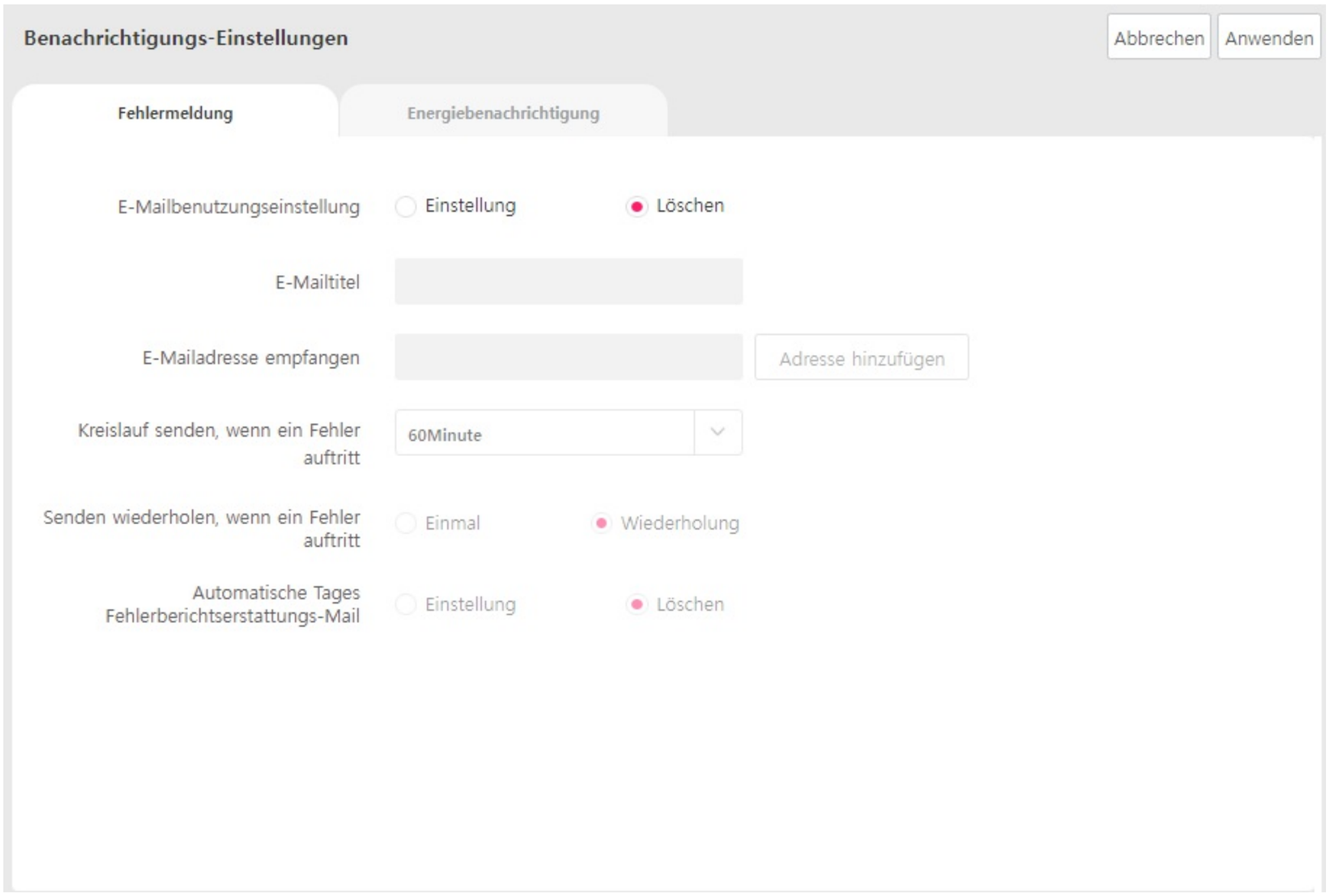
Benachrichtigungs-Einstellungen

Sie können die Funktionen für Fehlermeldung und Energiebenachrichtigung festlegen oder ändern.

Fehlermeldung

Sie können die Fehlermitteilung einstellen oder ändern.

1. In der linken Menütaste klicken Sie das **[Einstellung]** > **[Benachrichtigungs-Einstellungen]** Menü an.
   - Der Benachrichtigungs-Einstellungen-Bildschirm wird angezeigt.
2. Stellen Sie die Fehlermitteilung ein.



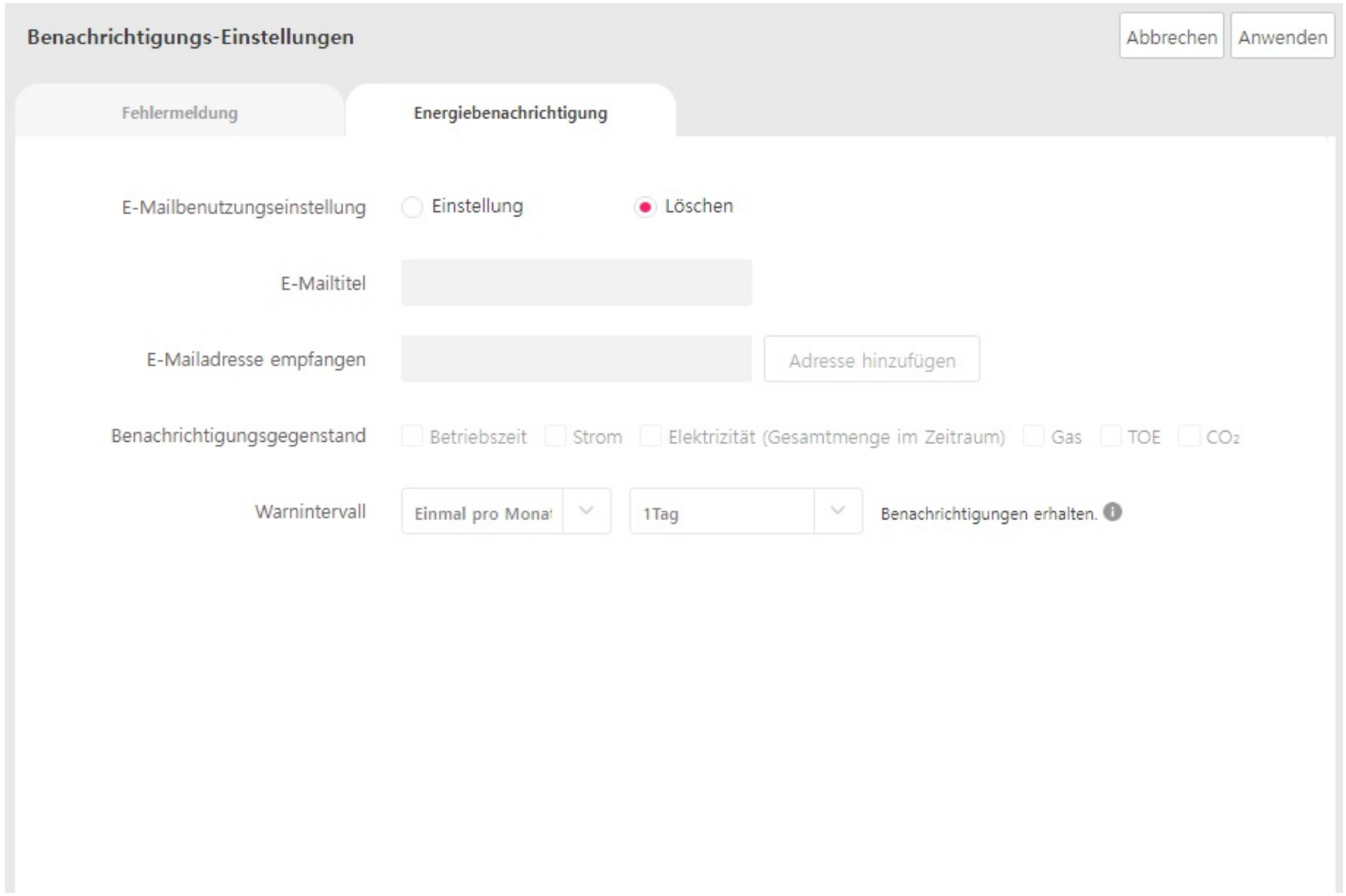
Kategorie	Beschreibung
E-Mailbenutzungseinstellung	Auswahl von Einstellen/Löschen, ob der Fehler in der Geräteadresse und die Fehlernr. durch eine E-Mail gesendet werden soll
E-Mailtitel	E-Mail-Titeleinstellung
E-Mailadresse empfangen	Empfänger-E-Mail-Adresse eintragen
Kreislauf senden, wenn ein Fehler auftritt	Einstellen des Übertragungszyklus im Fehlerfall (10/20/30/40/50/60 Min.)
Senden wiederholen, wenn ein Fehler auftritt	Einmal: Bei Fehler denselben Fehler-Alarm einmal senden. Wiederholung: Bei Fehler denselben Fehler-Alarm bei jedem Zyklus erneut senden.
Automatische Tages Fehlerberichtserstattungs-Mail	1-mal täglich automatische Aussendung einer E-Mail, wenn kein Fehler auftritt

3. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.

Energiebenachrichtigung

Sie können die Funktion für Energiebenachrichtigung festlegen oder ändern.

1. Am oberen Bildschirmrand auf die Registerkarte **[Energiebenachrichtigung]** drücken.
2. Energiebenachrichtigung festlegen.



Kategorie	Beschreibung
E-Mailbenutzungseinstellung	Festlegen, ob Daten zum Energieverbrauch per E-Mail gesendet werden sollen.
E-Mailtitel	E-Mail-Titeleinstellung
E-Mailadresse empfangen	Empfänger-E-Mail-Adresse eintragen
Benachrichtigungsgegenstand	Energiedaten auswählen
Warnintervall	Auf die Schaltfläche **[▼]** drücken, um das gewünschte Datum auszuwählen. • Das Datum festlegen, an dem Sie per E-Mail Daten zum Energieverbrauch erhalten wollen. • Die Daten für den Zeitraum eines Monats berechnen, bis zu dem Tag vor dem festgelegten Datum.

3. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.

Hinweis

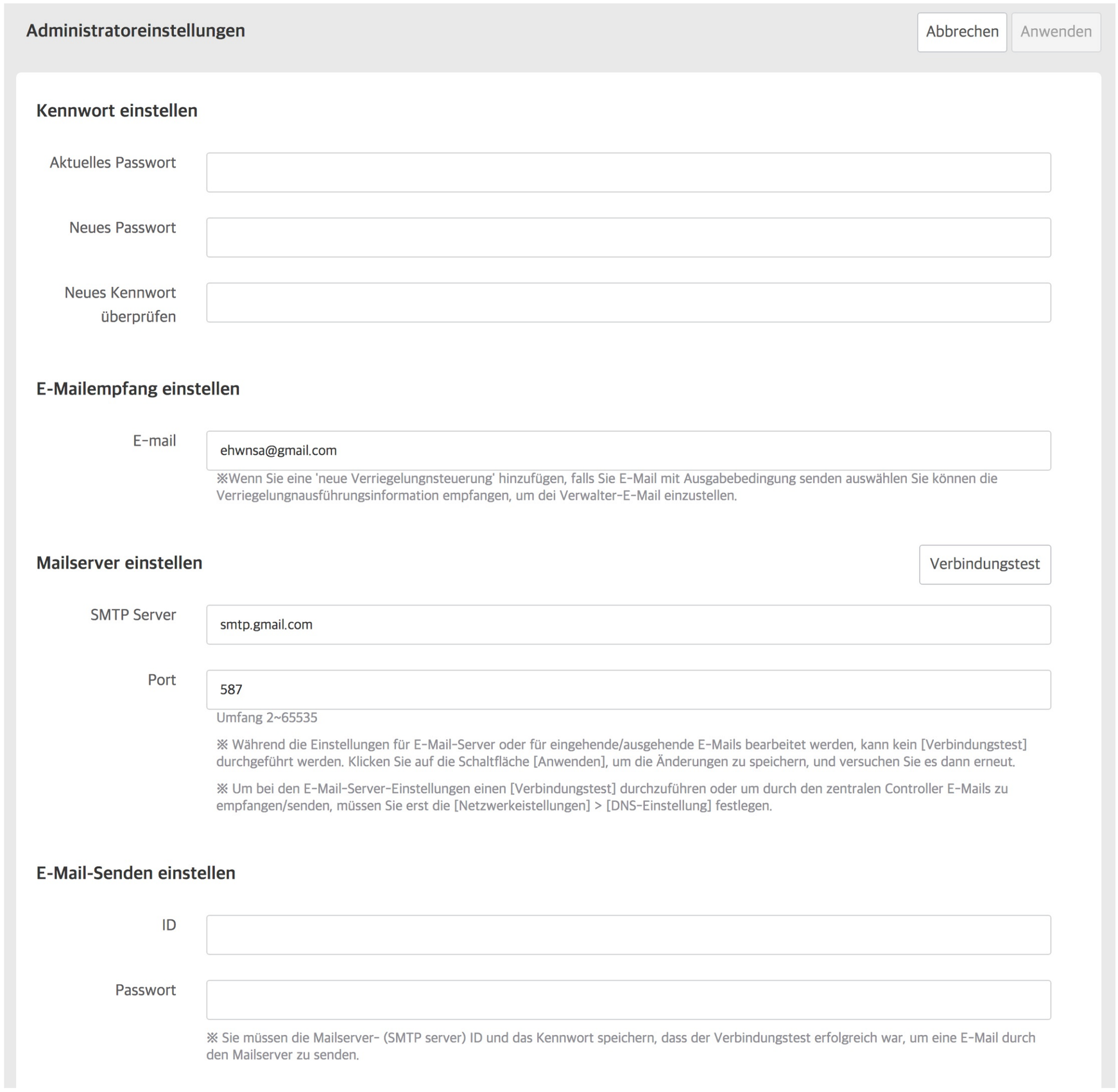
Überprüfen Sie vor Verwendung der E-Mail-Nutzung die folgenden Kategorien.

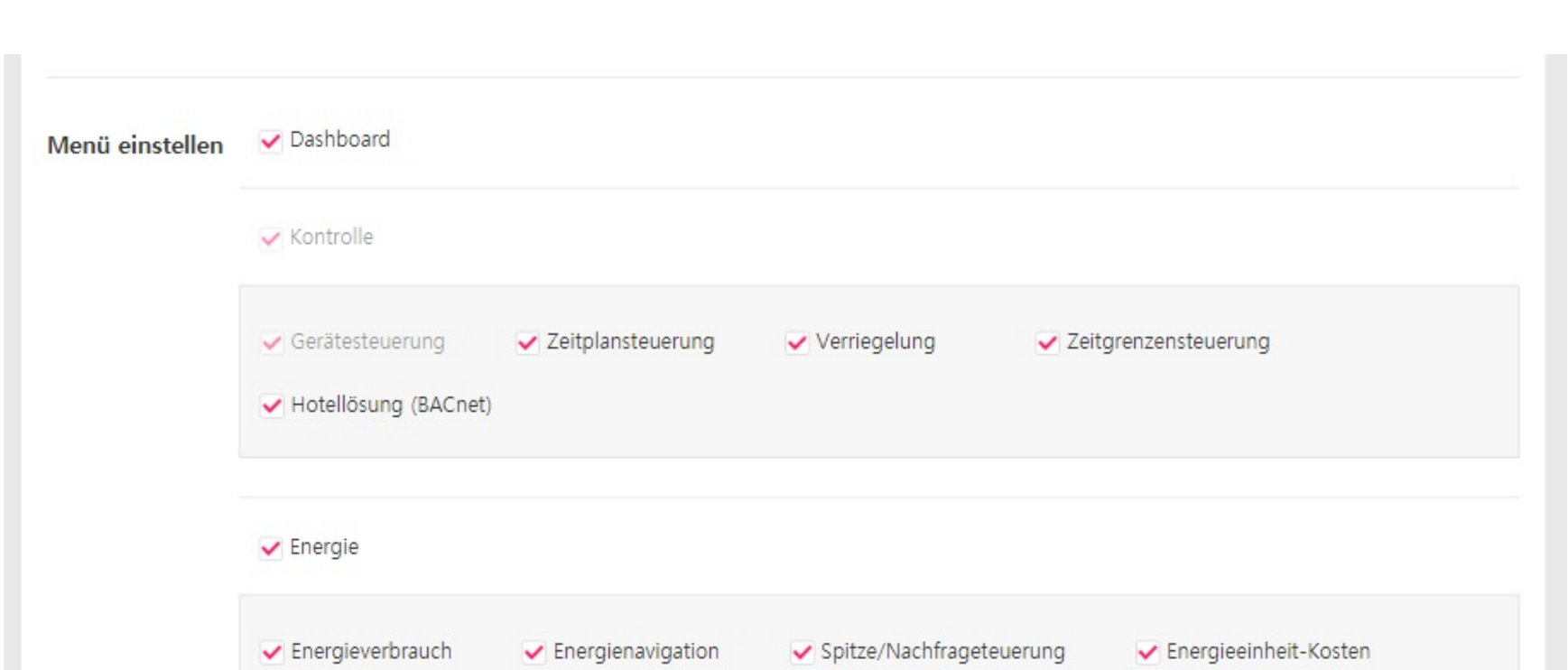
- [Einstellung] > Die [Netzwerkeinstellungen] des DNS-Servers müssen eingestellt sein.
- [Einstellung] > Die [Administratoreinstellungen] des E-Mail-Servers und des E-Mail-Versandes müssen eingestellt werden.

Administratoreinstellungen

Sie können die Benutzerverwaltungsumgebung einstellen oder ändern, wenn sich der Benutzer mit der Verwalterautorität anmeldet.

1. In der linken Menütaste klicken Sie das **[Einstellung] > [Administratoreinstellungen]** Menü an.
   - Der Verwaltereinstellung-Bildschirm wird angezeigt. Sie können die Verwalterinformation ändern oder die Systembenutzungsumgebung einstellen.





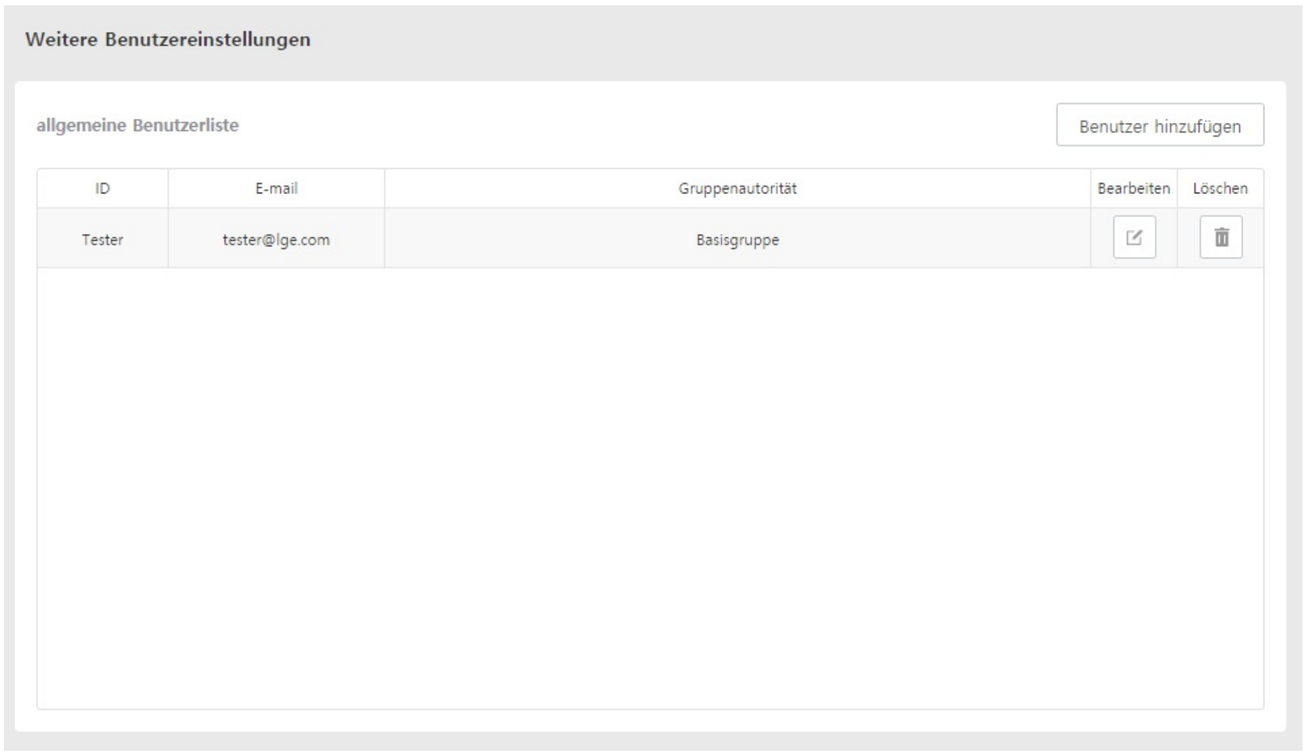
Kategorie	Beschreibung
Kennwort einstellen	Stellen Sie das Kennwort fest, um es bei der Anmeldung zu benutzen • Aktuelles Kennwort: Tragen Sie das aktuell für die Anmeldung benutzte Kennwort ein • Neues Kennwort: Tragen Sie das neue Kennwort ein • Überprüfung des neuen Kennworts: Tragen Sie dasselbe neue Kennwort nochmals ein
E-Mailempfang einstellen	E-Mail-Adresse eintragen
Mailserver einstellen	Verwalter-Mailserver-Einstellung • SMTP-Server: SMTP-Serveradresse eintragen • Eingang: Eingang-Nr. Eintragen • Verbindungstest: Mailkontotest eintragen (das Netzwerk sollte angeschlossen sein)
E-Mail-Senden einstellen	• ID: Benutzer-ID eintragen • Kennwort: Benutzerkennwort eintragen
Menü einstellen	Klicken Sie das Prüfkästchen an, um das erwünschte Verwalter-Menü auszuwählen (Sie können mehrere auswählen) • Dashboard • Controle: Gerätesteuerung, Zeitplansteuerung, Verriegelung, Zeitgrenzensteuerung, Hotellösung (BACnet) • Energie: Energieverbrauch, Energienavigation, Spitze/Nachfrageteuerung, Energieeinheit-Kosten • Historie: Betriebshistorie, Energienavigation Historie, Voraussichtlicher Betrieb, Kreislauf • Einstellung: Installieren, Gruppeneinstellung, Systemeinstellung, Netzwerkseinstellung, Benachrichtigungs-Einstellungen, Administratoreinstellungen, Weitere Benutzereinstellungen, Erweiterte Einstellungen, TMS-Einstellung, BACnet/Modbus/Lonworks-Einstellung, Innenraum-Feinstaub-Überwachung, Feinstaub-Überwachung festlegen

2. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.

Weitere Benutzereinstellungen

Sie können die zusätzliche Benutzerliste verwalten, wenn Sie sich mit der Verwalterautorität anmelden.

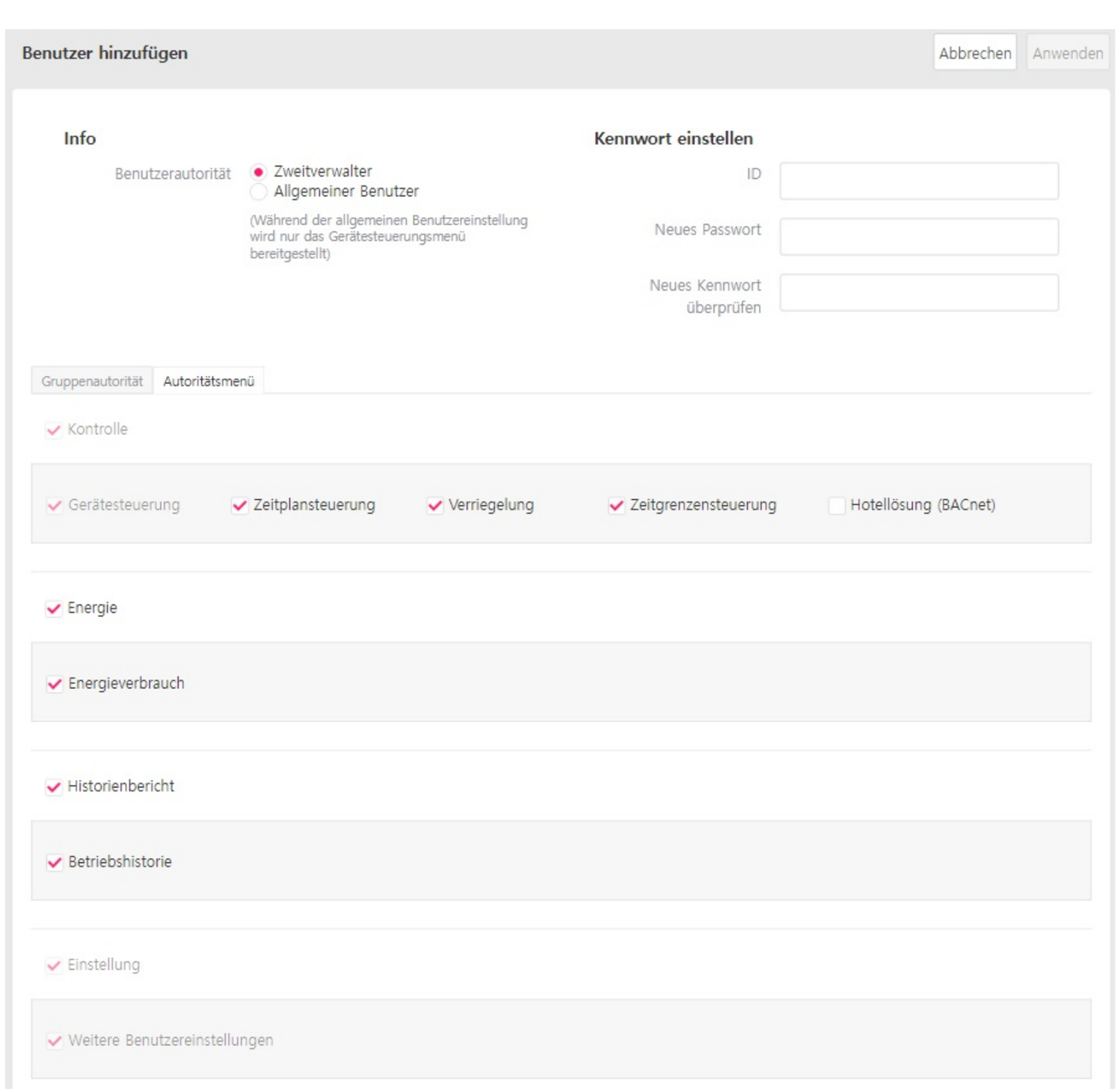
1. In der linken Menütaste klicken Sie die **[Einstellung] > [Weitere Benutzereinstellungen]** Menü an.
   - Der Weitere Benutzereinstellungen-Bildschirm wird angezeigt. Sie können Benutzer hinzufügen oder die Informationen registrierter Benutzer bearbeiten oder löschen.



Benutzer hinzufügen

Sie können einen zweitverwalter und allgemeinen Benutzer hinzufügen.

1. In der linken Menütaste klicken Sie die **[Einstellung] > [Weitere Benutzereinstellungen]** Menü an.
   - Der Weitere Benutzereinstellungen-Bildschirm wird angezeigt.
2. Klicken Sie die **[Benutzer hinzufügen]** Taste an.
   - Der Benutzer hinzufügen-Bildschirm wird angezeigt.
3. Stellen Sie jede Kategorie ein.



Kategorie	Beschreibung
Info	**[Benutzerautorität]** • Zweitverwalter: Gewährleistet der Autorität ein entsprechendes Menü • Allgemeiner Benutzer: Bietet nur Gerätesteuerungsmenü
Kennwort einstellen	**[ID]**: zu verwendende Eingabe-ID **[Passwort]**: Passwort eingeben, um es zu verwenden **[Kennwort überprüfen]**: Passwort eingeben, um es erneut zu verwenden
Gruppenautorität	Gruppenautorität des zusätzlichen Benutzers zuordnen • Wird die Gruppe ausgewählt, kann nur die entsprechende Gruppe gesteuert werden
	Die durch den zusätzlichen Benutzer benutzte Menüautorität zuordnen

Autoritätsmenü	• Dem allgemeinen Benutzer werden nur die **[Steuerung]-[Gerätesteuerung], [Einstellung]-[Weitere Benutzereinstellungen]** Menüautoritäten zugeordnet

4. Wird die Einstellung abgeschlossen, klicken Sie die **[Anwenden]** Taste an.

Benutzer löschen

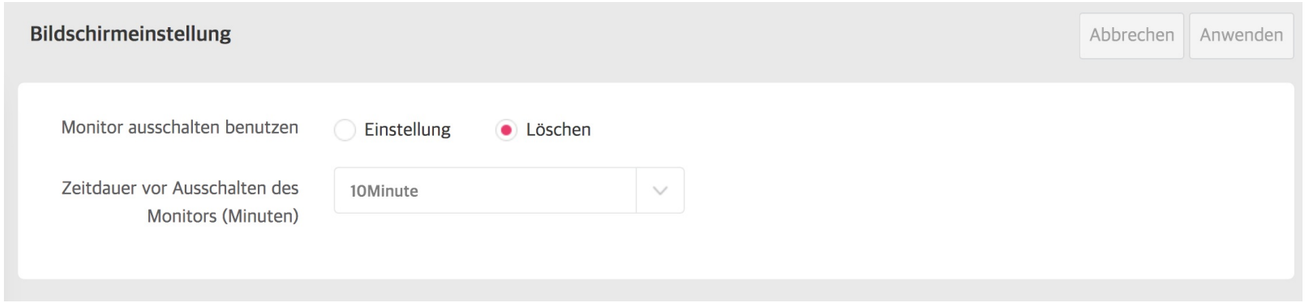
Sie können einen registrieren Benutzer löschen.

1. In der linken Menütaste klicken Sie die **[Einstellung] > [Weitere Benutzereinstellungen]** Menü an.
   - Der Weitere Benutzereinstellungen-Bildschirm wird angezeigt.
2. Klicken Sie die **[Löschen]** Taste des zu löschenden Benutzers an.
   - Der Benutzer löschen-Bildschirm wird angezeigt.
3. Klicken Sie die **[Ja]** Taste an

Bildschirmeinstellung

Sie können die Nutzungsumgebung für den Produktbildschirm festlegen.

1. Klicken Sie auf der linken Seite des Menü-Tabulators auf das Menü **[Einstellung] > [Bildschirmeinstellung]**.
   - Der Bildschirm für den Einstellbildschirm wird angezeigt.
2. Bildschirminformationen einstellen.



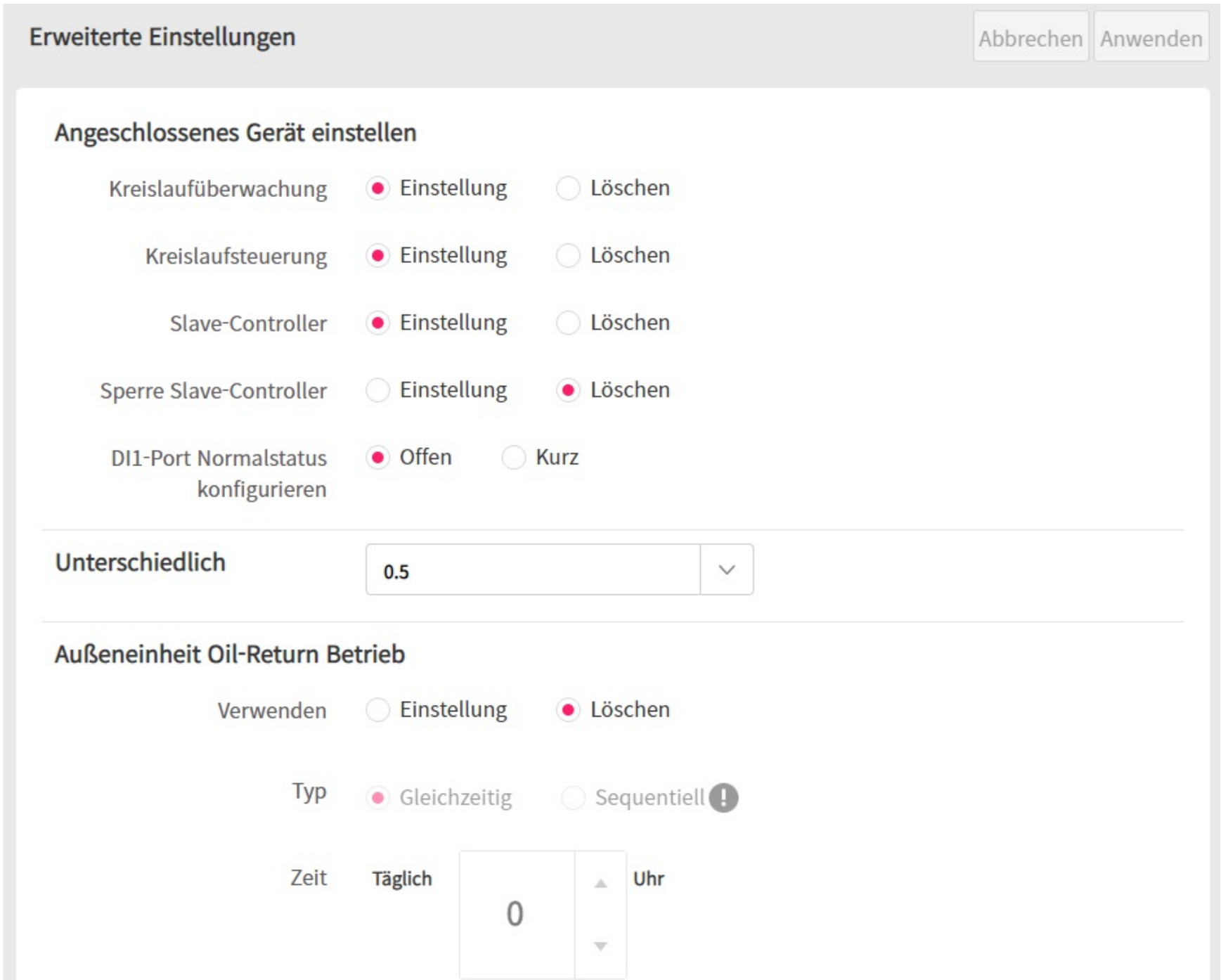
Kategorie	Beschreibung
Einstellung des Bildschirmschoners	• Monitor ausschalten benutzen: Verwendung der Monitor-Power-AUS-Funktion **Einstellung/Löschen** • Zeitdauer vor Ausschalten des Monitors (Minuten): Bereitschaftszeitraum bis zum Monitor-AUS einstellen (10/20/30/40/50/60 Min.)

3. Wird die Einstellung abgeschlossen, klicken Sie die **[Anwenden]** Taste an.

Erweiterte Einstellungen

Sie können Funktionen festlegen, die für den Betrieb des Geräts erforderlich sind.

1. Klicken Sie auf der linken Seite des Menü-Tabulators auf das Menü **[Einstellung] > [Erweiterte Einstellungen]**.
   - Der Bildschirm für die Erweiterte Einstellungen wird angezeigt.



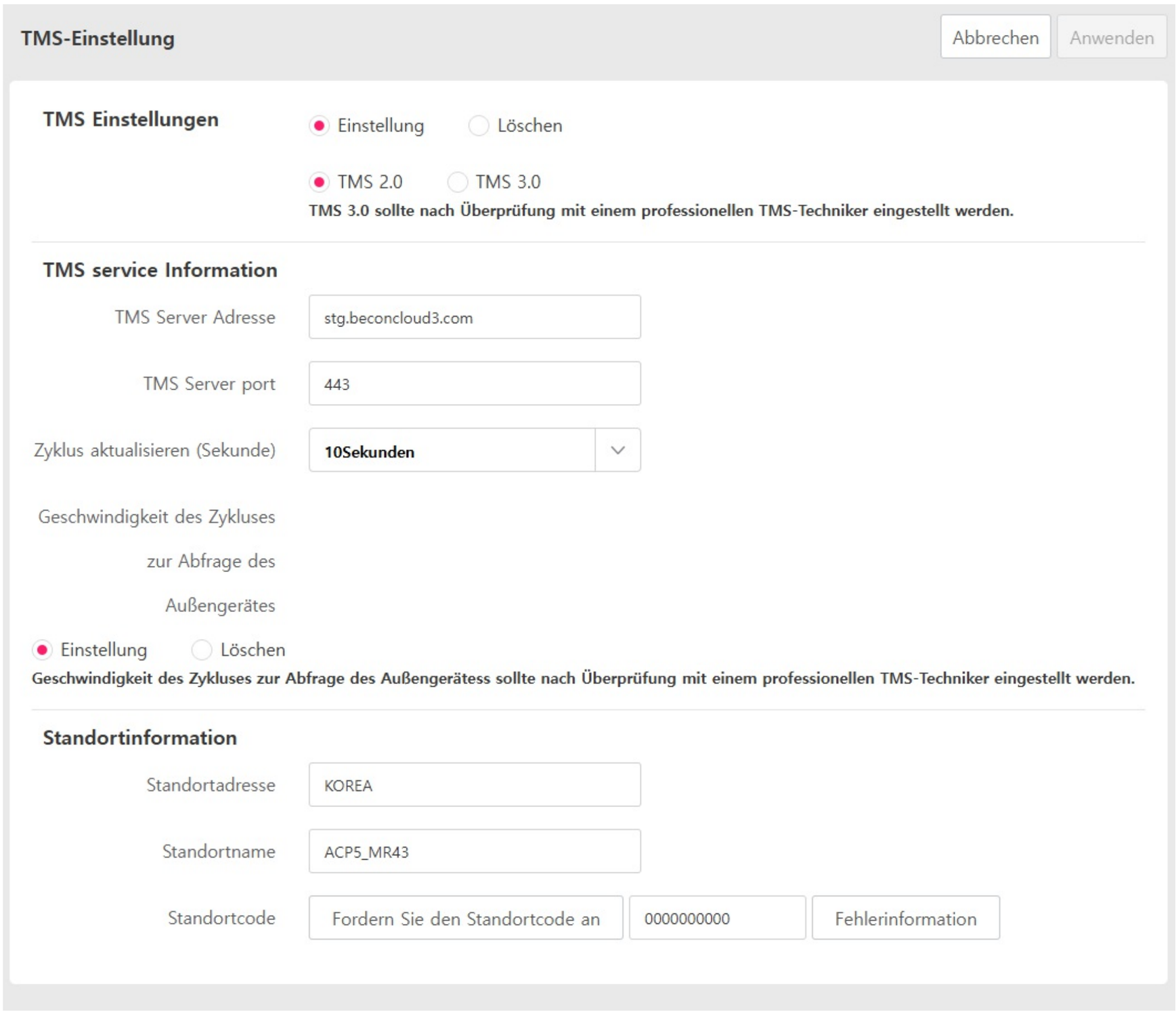
Kategorie	Beschreibung
Angeschlossenes Gerät einstellen	• Kreislaufüberwachung: Legt fest, ob die Zyklusinformationsüberwachung verwendet werden soll • Kreislaufsteuerung: Legt fest, ob die Zyklussteuerung ausgeführt werden soll • Slave-Controller: Legt fest, ob die Steuerung über einen Slave-Controller möglich ist • Sperre Slave-Controller: Legt fest, ob die Steuerung über einen Slave-Controller für die Innenraumgeräteeinheit mit allen Sperren eingestellt möglich ist (Verwendung: Slave-Controller-Steuerung ist nicht möglich) • DI1-Port Normalstatus konfigurieren: Konfiguriert den Normalstatus für Port DI1.
Unterschiedlich	Drücken Sie die Taste **[▼]**, um die Temperaturdifferenz für den automatischen Schaltvorgang einzustellen
Außeneinheit Oil-Return Betrieb	• Legt fest, ob der Ölrückgewinnungsbetrieb des Außengeräts ausgeführt werden soll • Ölrückgewinnung des Außengeräts auf Gleichzeitig/Sequentiell Betrieb einstellen. - Gleichzeitig Betrieb: Betreibt gleichzeitig die Ölrückgewinnung des Außengeräts. - Sequentiell Betrieb: betreibt die Ölrückgewinnung des Außengeräts sequentiell in 10-minütigen Intervallen. • Drücken Sie die Taste **[▲]/[▼]**, um die Betriebszeit für die Ölrückgewinnung des Außengeräts einzustellen

2. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.

TMS-Einstellung

Sie können einen Ferndienst einrichten, der das System ferngesteuert verwalten kann.

1. Klicken Sie auf der linken Seite des Menü-Tabulators auf das Menü **[Einstellung] > [TMS-Einstellung]**.
   - Der TMS-Einstellbildschirm wird angezeigt.



Kategorie	Beschreibung
TMS Einstellungen	• Legt fest, ob der Ferndienst verwendet werden soll • Stellt den Servertyp für Fernwartung ein - Schaltfläche **[TMS 2.0]** : Verbindung mit dem TMS 2.0 Server - Schaltfläche **[TMS 3.0]** : Verbindung mit dem TMS 3.0 Server
TMS service Information	• TMS Server Adresse: Geben Sie die Adresse des Ferndienst-Servers ein • TMS Server port: Geben Sie die Portnummer des Ferndienst-Servers ein • Zyklus aktualisieren (Sekunde): Drücken Sie auf die **[▼]**-Taste, um den Aktualisierungszyklus für den Ferndienst auszuwählen 10/30/60/90/120 Sekunden • Geschwindigkeit des Zykluses zur Abfrage des Außengerätes: Einstellung der Geschwindigkeit der Abfrage vom Zyklus des Außengerätes.
Standortinformationen	• Standortadresse: Eingabe der externen Seitenadresse • Standortname: Geben Sie den Namen des Fernstandorts ein • Standortcode: Drücken Sie auf die **[Fordern Sie den Standortcode an]**-Taste, um den Standortcode einzugeben • Fehlerinformationen: Nachdem Sie den Standort-Code angefordert haben, klicken Sie auf die Schaltfläche **[Fehlerinformation]**, um die Verbindungsinformationen zu überprüfen. - Schaltfläche **[Speichern]**: Speichert die Fehlerinformationen in einer Datei.

2. Um die eingestellten Inhalte zu speichern, klicken Sie die **[Anwenden]** Taste an.

BACnet/Modbus/Lonworks-Einstellung

Anleitung zu BTL-Konfiguration

Damit die Geräte mit den Funktionen arbeitet, die durch BTL authentifiziert sind, müssen Sie BACnet auf Typ C stellen.

BACnet Typ A/B gibt es, um kompatibel mit bereits existierenden Produkten sein zu können. Wenn Sie BACnet auf Typ A/B stellen, benutzen die Geräte möglicherweise Funktionen, die nicht durch BTL authentifiziert sind, sodass Sie nicht standardgemäß arbeiten.

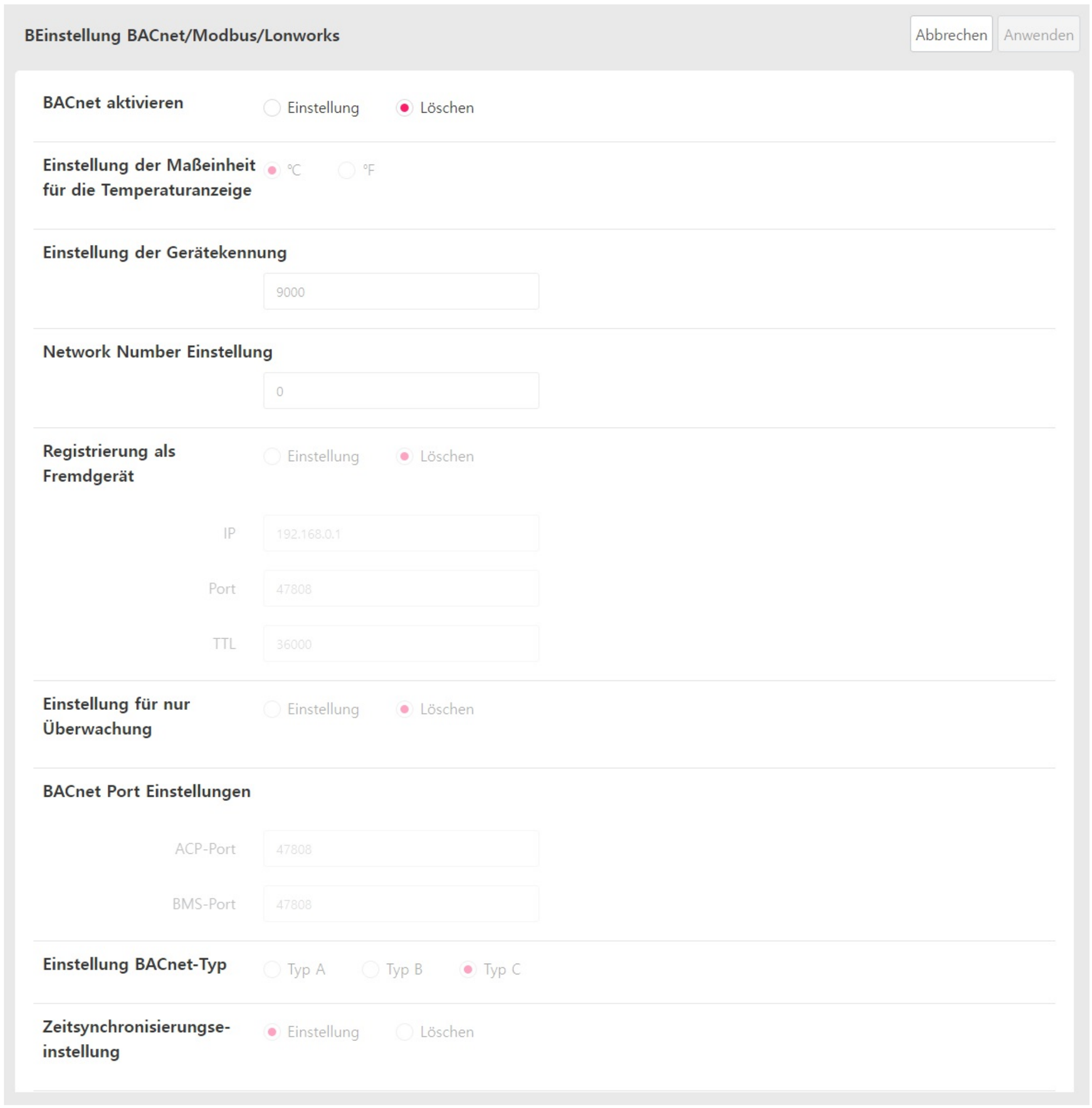
Betriebsart gemäß BACnet Typ

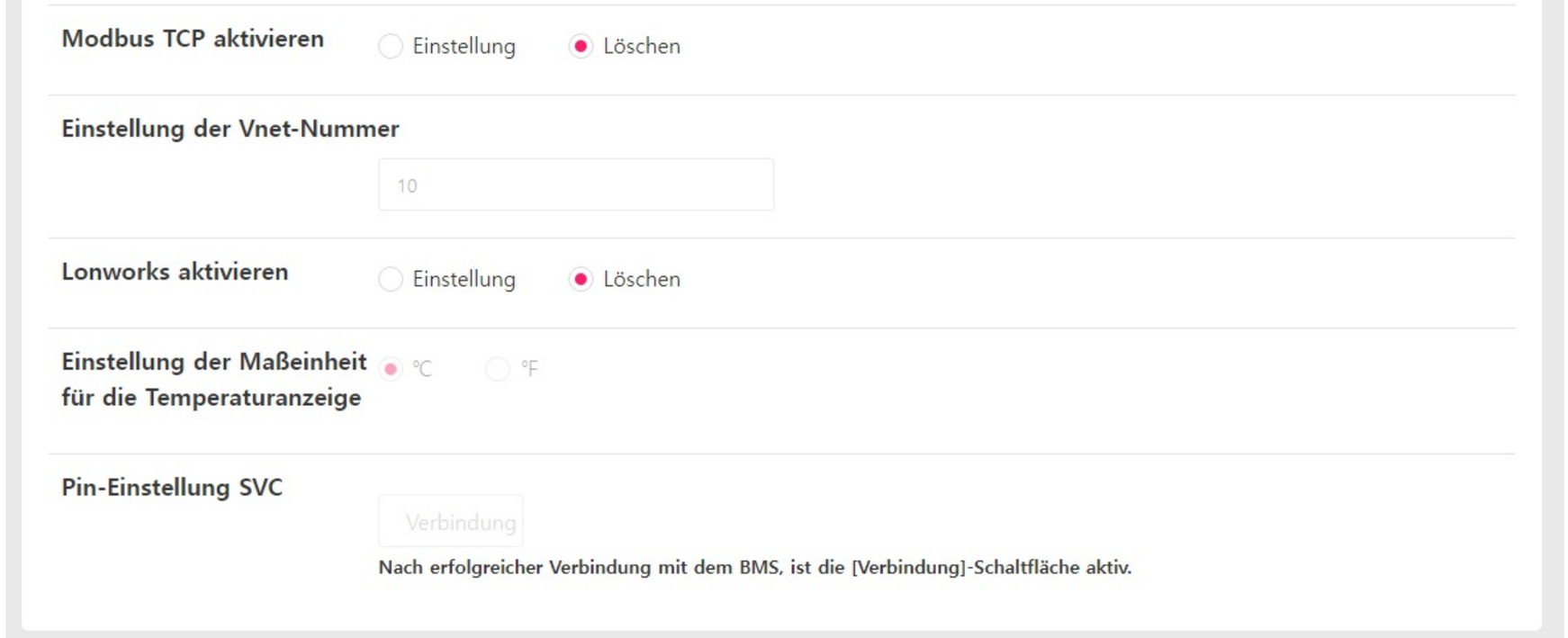
- Typ A: Erstellt mehrere Geräte, und die Objekte sind im Gerät bei jeder Anlage enthalten. Mehre Geräte reagieren, indem sie dieselbe MAC-Adresse als ihre physikalischen Adressen verwenden.
- Typ B: Erstellt mehrere Geräte, und die Objekte sind im Gerät jeder Anlage enthalten. Geräte reagieren auf Grundlage singulärer physikalischer Adressen.
- **Typ C: Erstellt nur ein Gerät, das alle Objekte umfasst.**

※ Vorsicht: Wenn Sie den Typ wechseln, ändert sich möglicherweise die Gerätenummer. Möglicherweise ist es dann notwendig, beim BMS zusätzliche technische Änderungen durchzuführen.

Sie können die BACnet/Modbus/Lonworks-Einstellung ändern.

1. Klicken Sie auf der linken Seite des Menü-Tabulators auf das Menü **[Einstellung] > [BACnet/Modbus/Lonworks-Einstellung]**.
   - Der Bildschirm für den BACnet/Modbus/Lonworks-Einstellung wird angezeigt.
2. BACnet/Modbus/Lonworks einstellen.





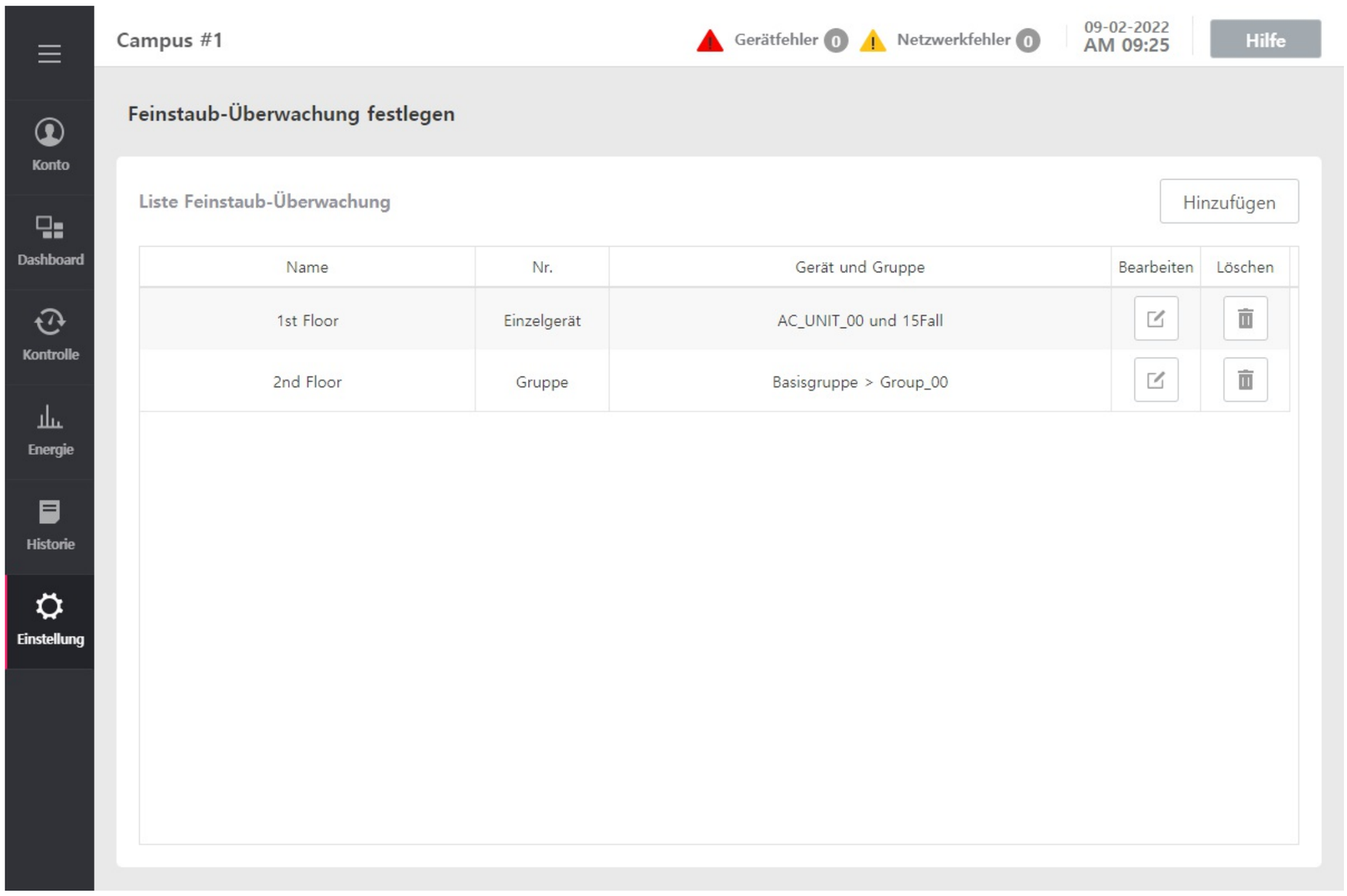
Kategorie	Beschreibung
BACnet aktivieren	BACnet aktivieren **Einstellung/Löschen**
Einstellung der Maßeinheit für die Temperaturanzeige	Wählen Sie den Typ der Temperatureinheit (℃/℉) aus
Einstellung der Gerätekennung	Geräte-ID-Einstellung für die Zuweisung der Geräteinstanznummer • Klimaanlage: Geräte-ID • ERV: Geräte-ID + 1 • AHU: Geräte-ID + 2 • Informationen zum Zyklus des Außengeräts: Geräte-ID + 3 • Heating: Geräte-ID + 4 • Normal : Geräte-ID + 5
Network Number Einstellung	Network Number Einstellung
Registrierung als Fremdgerät	Fremdgeräte **Einstellung/Löschen**
Einstellung für nur Überwachung	Nur Überwachungseinstellung **Einstellung/Löschen**
BACnet Port Einstellungen	BACnet Port Einstellungen
Einstellung BACnet-Typ	BACnet-Typenauswahl (A/B/C)
Zeitsynchronisierungseinstellung	Zeitsynchronisation **Einstellung/Löschen**
Modbus TCP aktivieren	Modbus TCP aktivieren **Einstellung/Löschen**
Einstellung der Vnet-Nummer	Vnet-Nummerneinstellung zur Verwendung der Modbus-TCP-Funktion Vnet-Nummernwert einstellen, dass er als Slave ID-Adresse für Modbus-TCP funktioniert
Lonworks aktivieren	Lonworks aktivieren **Einstellung/Löschen**
Einstellung der Maßeinheit für die Temperaturanzeige	Auswahl der Einheit in Lonworks für die Temperaturanzeige (℃/℉)
Pin-Einstellung SVC	Bei der Inbetriebnahme des LON BMS die Verbindung angeben

3. Wird die Einstellung abgeschlossen, klicken Sie die **[Anwenden]** Taste an.

Feinstaub-Überwachung festlegen

Ermöglicht, Feinstaub-Überwachung festzulegen und zu verwalten.

1. Im linken Menüregister auf **[Einstellungen] > [Feinstaubüberwachung festlegen]** klicken.
   - Der Bildschirm für Einstellen der Feinstaub-Überwachung wird angezeigt. Sie können Aufgaben der Feinstaub-Überwachung hinzufügen und aufgelistete Aufgaben bearbeiten oder löschen.



Aufgabe zur Feinstaub-Überwachung hinzufügen/bearbeiten.

Sie können Aufgaben der Feinstaub-Überwachung hinzufügen oder bearbeiten.

1. Im linken Menüregister auf **[Einstellungen] > [Feinstaubüberwachung festlegen]** klicken.
   - Der Bildschirm für Einstellen der Feinstaub-Überwachung wird angezeigt.
2. Klicken Sie auf die Schaltfläche **[Hinzufügen]**.
   - Der Bildschirm zum Hinzufügen einer Aufgabe der Feinstaub-Überwachung wird angezeigt.
3. Auf dem Bildschirm die gewünschten Punkte angeben.

Konto
Dashboard
Kontrolle
Energie
Historie
Einstellung

Feinstaub-Überwachung festlegen

Abbrechen | Anwenden

Name: Gerätname eingeben.

Typ: Gruppen-Überwachung / Überwachung einzelner Geräte

Frequenz-Umschaltung bei Geräte-Seite: 30 Sekunden

Zertifizierung der Reinluftzone anzeigen: Abbrechen / Verwenden

Bild: Basic_Image.png | Laden (Größe: 3 MB, Seitenverhältnis: 8:9 empfohlen)

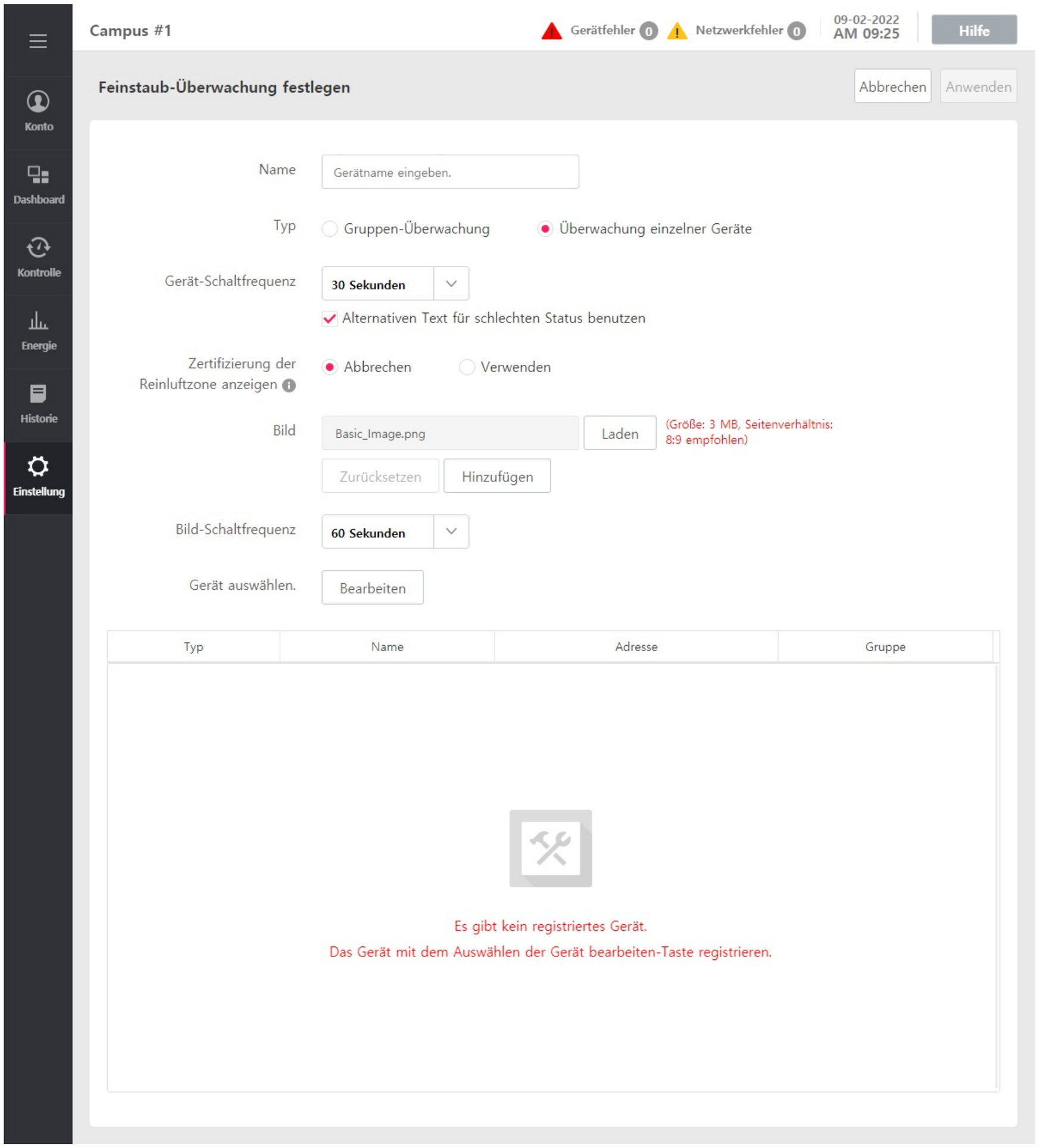
Zurücksetzen | Hinzufügen

Bild-Schaltfrequenz: 60 Sekunden

Gerät auswählen. Bearbeiten

Typ	Name	Adresse	Gruppe

Es gibt kein registriertes Gerät.
Das Gerät mit dem Auswählen der Gerät bearbeiten-Taste registrieren.



Element	Einrichtung
Bezeichnung	Den Namen der Feinstaub-Überwachung festlegen.
Art	Überwachungsart festlegen. • Gruppen-Überwachung: Gesamt-Sauberkeitsstufe und statistische Daten der Gruppe liefern • Überwachung einzelner Geräte: Gesamt-Sauberkeitsstufe und Bilder für jedes einzelne Gerät liefern
Geräte-Seite Schaltzyklus / Gerät-Schaltzyklus	Geräte-Seite Schaltzyklus / Gerät-Schaltzyklus festlegen.
Alternativen Text für schlechten Status benutzen	Alternativen Text und Bilder liefern für Gesamt-Sauberkeitsstatus bei Schlecht oder Niedriger. • Verfügbar nur bei Überwachung einzelner Geräte
Zertifizierung der Reinluftzone anzeigen.	Sticker der Zertifizierung der Reinluftzone anzeigen oder ausblenden.
Bild	Das während der Überwachung anzuzeigende Bild festlegen. Es können bis zu 10 Bilder festgelegt werden. • **[Import]**: Ein Bild importieren, das benutzt werden soll. Wenn das Fenster zum Importieren angezeigt wird, die hinzuzufügende Bilddatei auswählen und auf die Schaltfläche **[Öffnen]** klicken. • **[Hinzufügen]**: Eine Registerkarte zum Einstellen eines Bildes hinzufügen. • **[Löschen]**: Eine Registerkarte zum Einstellen eines Bildes löschen. • **[Zurücksetzen]**: Das hinzugefügte Bild wird zurückgesetzt. • Verfügbar nur bei Überwachung einzelner Geräte
Bild-Schaltfrequenz	Bild-Schaltfrequenz festlegen. • Verfügbar nur bei Überwachung einzelner Geräte
Gerät bearbeiten	Das Gerät oder die Gruppe auswählen, bei dem/der die Feinstaub-Überwachung durchgeführt werden soll. • Um das Popup-Fenster zum Bearbeiten des Geräts anzuzeigen, auf die Schaltfläche **[Gerät bearbeiten]** klicken. • In der Liste nicht registrierter Geräte das Kästchen des Geräts oder der Gruppe markieren, das/die registriert werden soll, und dann auf die Schaltfläche **[◀]** klicken. • Sobald das Gerät erfolgreich registriert worden ist, auf die Schaltfläche **[Apply]** klicken.

4. Sobald die Einstellung durchgeführt worden ist, auf die Schaltfläche **[Anwenden]** klicken.

Feinstaub-Überwachung löschen.

Sie können die aufgelistete Feinstaubüberwachungs-Einstellung löschen.

1. Im linken Menüregister auf **[Einstellungen]** > **[Feinstaubüberwachung festlegen]** klicken.
   - Der Bildschirm für Einstellen der Feinstaub-Überwachung wird angezeigt.
2. Dazu neben dem zu löschenden Element auf die Schaltfläche **[Löschen]** klicken.
   - Das Popup-Fenster zum Löschen wird angezeigt.

3. Auf die Schaltfläche **[Ja]** klicken.

Hinweis

Empfohlene Bildgröße (bei Auflösung von 1920 x 1080)

- Horizontal: 960 x 1080 px
- Vertikal: 1080 x 840 px

Verbrauch (Mobiltelefon, Tablet)

- Anmelden/Abmelden
- Dashboard
- Gerätesteuerung
- Zeitplansteuerung

Benutzerhandbuch

Über das Internet-Adressfenster kann auf das Produkt mit IP-Adresse zugegriffen werden, um verschiedene zentrale Steuerfunktionen zu verwenden.

Hinweis

- **Chrome-Browser werden für die Web-Steuerung empfohlen.**
- **Für den Zugriff aufs Netz muss die IP-Adresse eingestellt werden.**

Anmelden

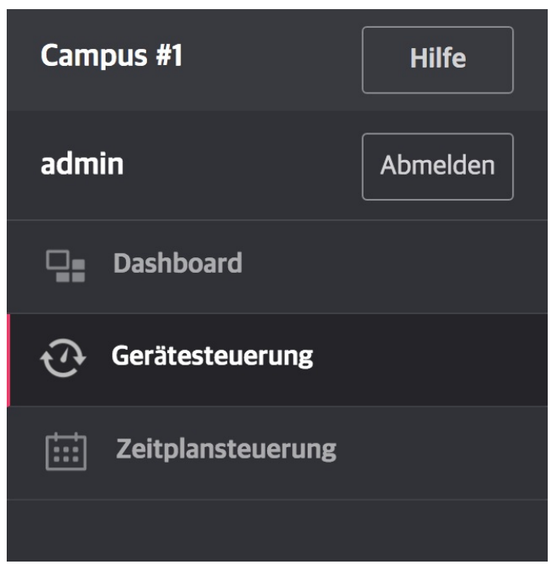
Die Anmeldemethode ist, wie folgt.

1. Bitte geben Sie die IP-Adresse des Produkts in das Internet-Adressfenster ein.
2. Tragen Sie die ID und das Kennwort ins Anmeldefenster ein und klicken Sie die **[Anmelden]** Taste.

Abmelden

Die Abmeldemethode ist, wie folgt.

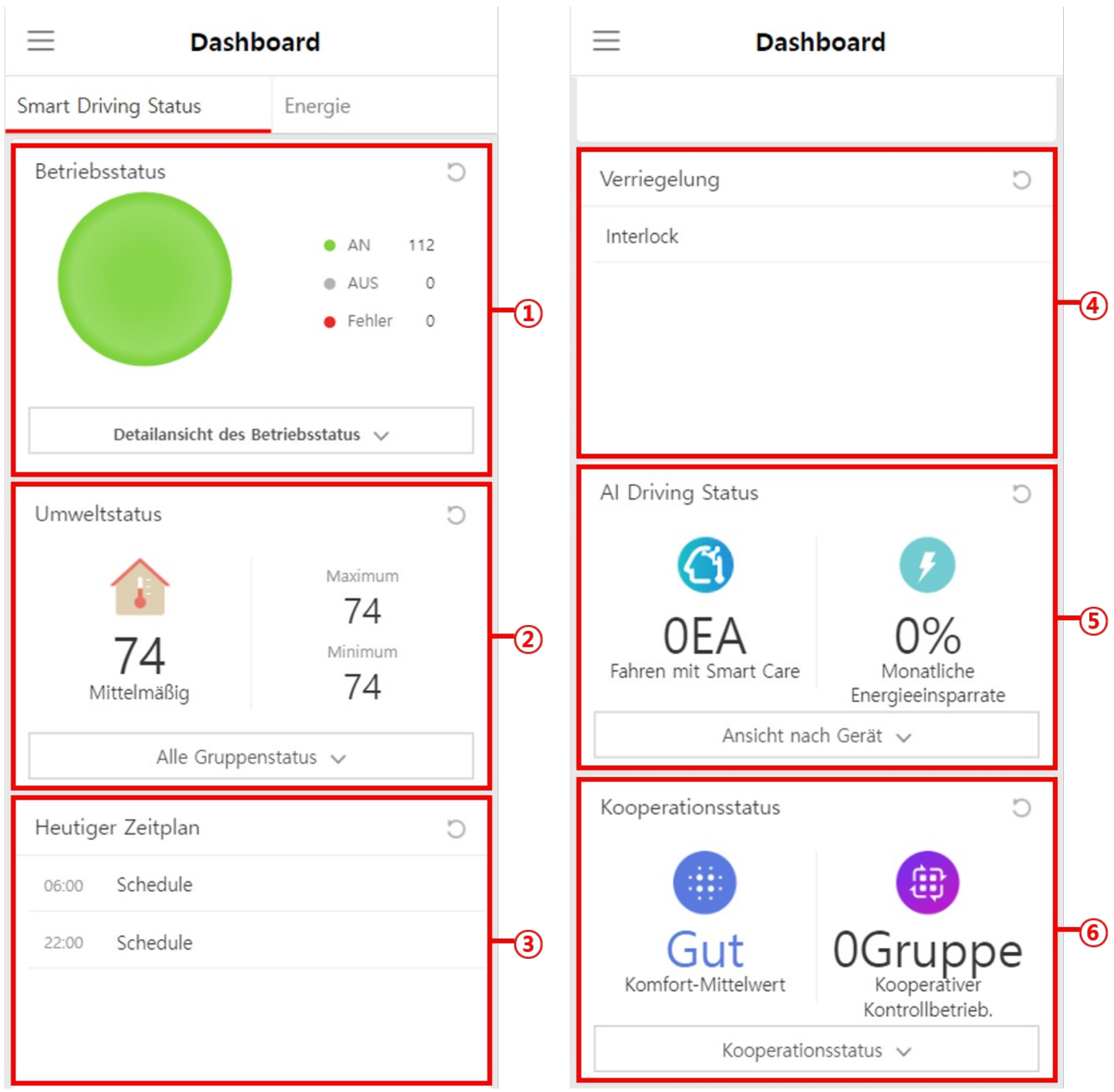
1. Im Menü klicken Sie die **[Abmelden]** Taste an.



Sie können den aktuellen Betriebsstatus und den Energieverbrauch der im Produkt installierten Geräte überprüfen.

Betriebsstatus

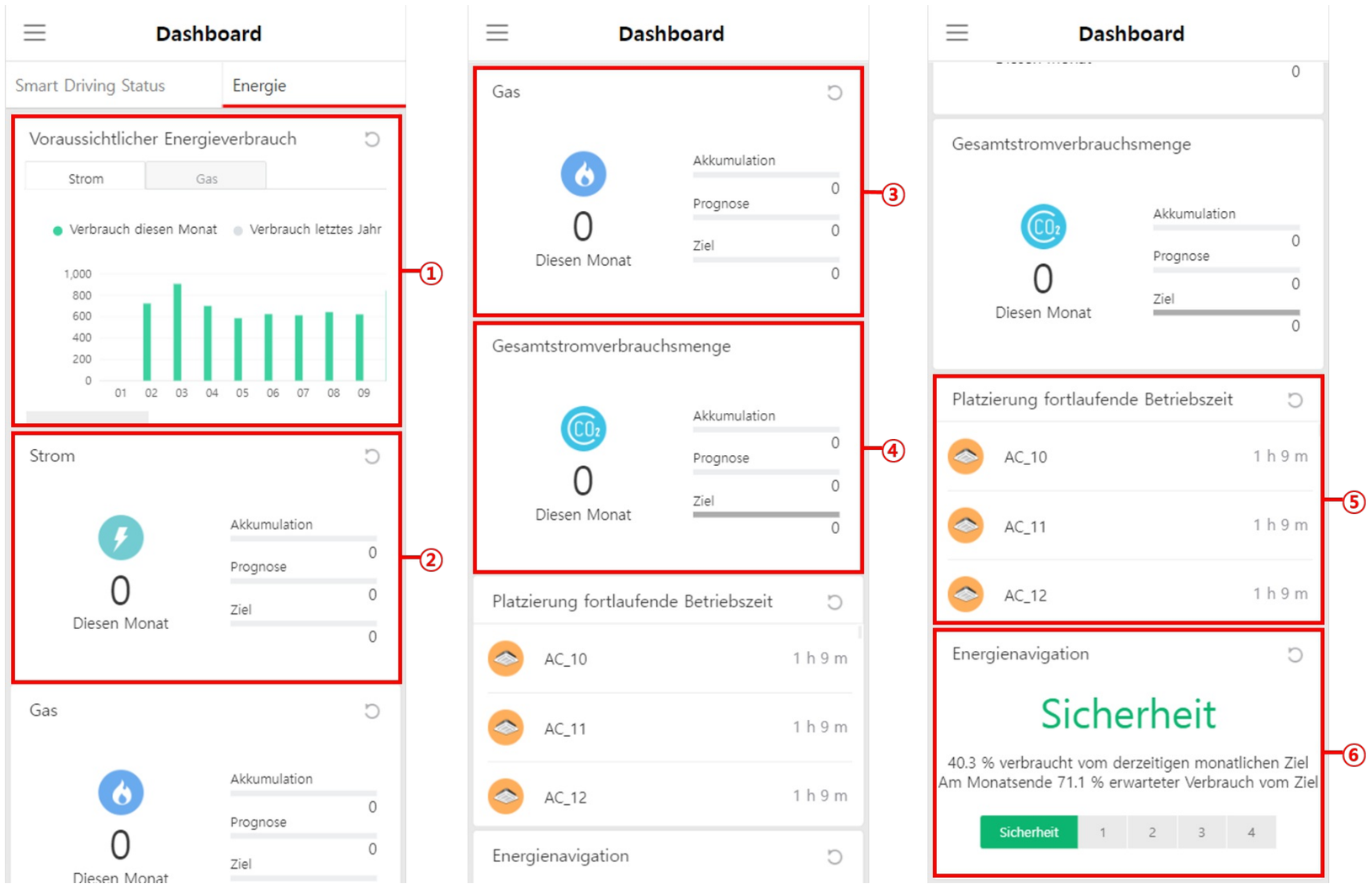
Der aktuelle Betriebsstatustastenkomposition und die Funktionen des Dashboards werden beschrieben.



Nr.	Kategorie	Inhalte
①	Betriebsstatus	Überprüfen Sie den Betriebsstatus (AN/AUS/Fehler) der im Produkt installierten Geräte [Gruppe] • Prüfen des Betriebsstatus jeder vom Benutzer entworfenen Verwaltungsgruppe [Gerät] • Prüfen des Betriebsstatus jedes Geräts
②	Umgebungsstatus	Prüfen der Durchschnittsinnentemperatur, Max./Min. Innentemperatur und Gruppe
③	Heutiger Zeitplan	Prüfen der heutigen Zeitplanliste
④	Verriegelung	Prüfen der Verriegelungsliste
⑤	AI Driving Status	Überprüfen Sie die Anzahl der Geräte, die mit Smart Care laufen, und die monatliche Energieeinsparrate. • Klicken Sie auf Ansicht nach Gerät, um die Anzahl der Außengeräte mit AI Smart Care, den Energieverbrauch sowie Energieeinsparung und Monatliche Energieeinsparrate jedes Geräts anzuzeigen
⑥	Kooperationsstatus	Verwendung des kooperativen Kontroll-Widgets • Komfort-Mittelwert • Kooperativer Kontrollbetrieb • Kooperationsstatus

Energie

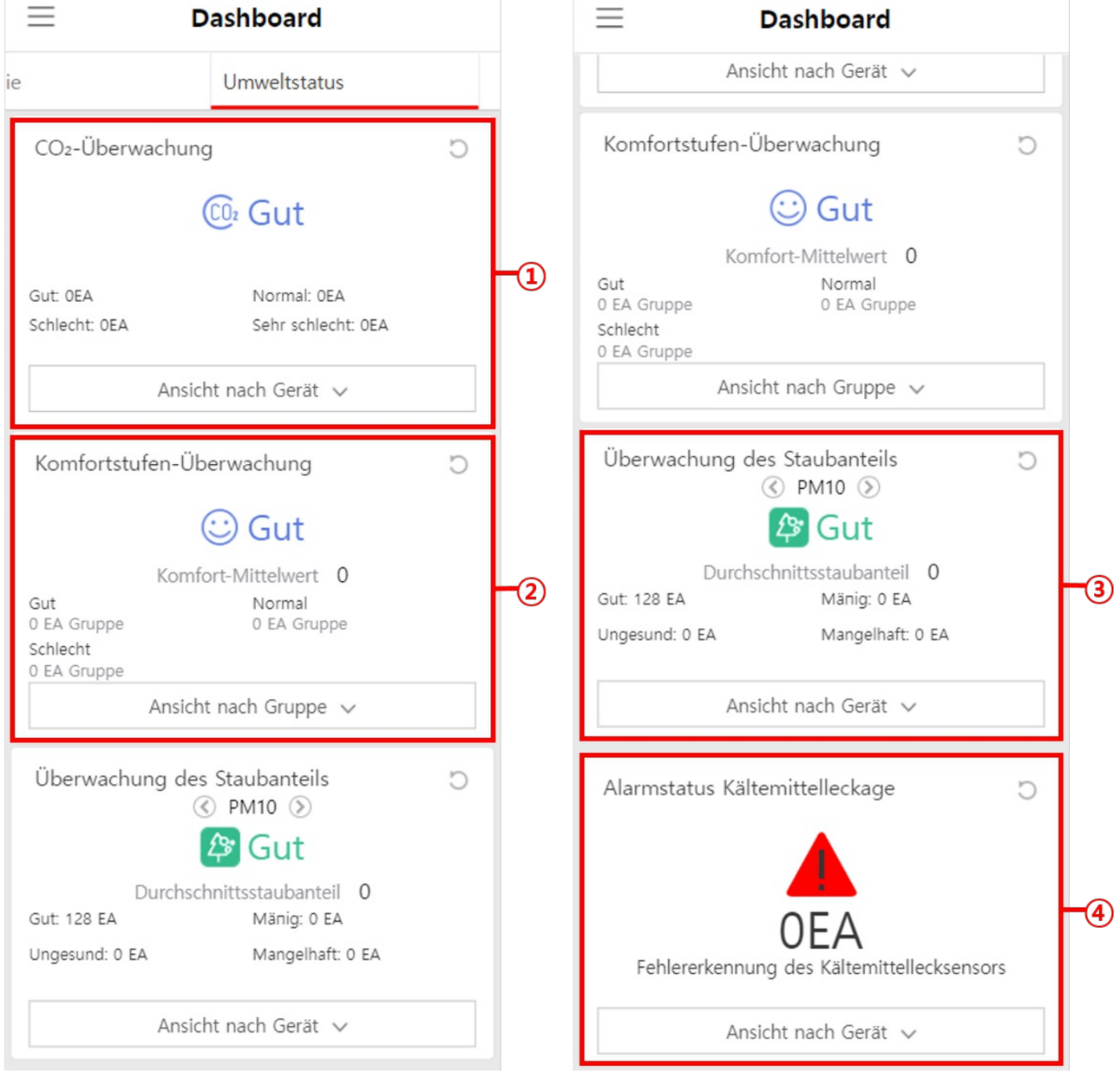
Die Energietastenkomposition und Funktion des Dashboards wird beschrieben.



Nr.	Kategorie	Inhalte
①	Voraussichtlicher Energieverbrauch	Prüfen des Tages-, Monats- und Jahrestrends der Strom-/Gasverbrauchsmenge
②	Strom	Prüfen der Stromverbrauchsmengenakkumulierung, Vorhersage und des Ziels
③	Gas	Prüfen der Gasverbrauchsmengenakkumulierung, Vorhersage und des Ziels
④	Gesamtstromverbrauchsmenge	Prüfen der Gesamtenergieverbrauchsmengenakkumulierung, Vorhersage und des Ziels
⑤	Platzierung fortlaufende Betriebszeit	Prüfen des kontinuierlichen Betriebszeitrangs der Innenraumgerät
⑥	Energienavigation	Überprüfen Sie den Status der Energienavigation

Umweltstatus

Es beschreibt die Zusammensetzung und die Funktionen des Tabulators für den Dashboard-Umgebungsstatus



Nr.	Kategorie	Inhalte
①	CO_2-Überwachung	Überprüfen Sie den CO_2-Status der registrierten ERV
②	Komfortstufen-Überwachung	Überprüfen Sie den Annehmlichkeitszustand der registrierten Innenraumgeräteeinheiten
③	Überwachung des Staubanteils	Überprüfen Sie den Feinstaubzustand der registrierten Innenraumgeräteeinheiten, Luftreiniger Feinstaub wird in PM10, PM2,5 und PM1,0 klassifiziert und dies zeigt jeden Status und jede Konzentration an
④	Alarmstatus Kältemittelleckage	Überprüfen Sie den Alarmstatus Kältemittelleckage der registrierten Innenraumgeräteeinheiten

Gerätesteuerung

Die Methode der Gerätsteuerung und Überwachung des Gerätstatus wird angezeigt.

[Bildschirm]

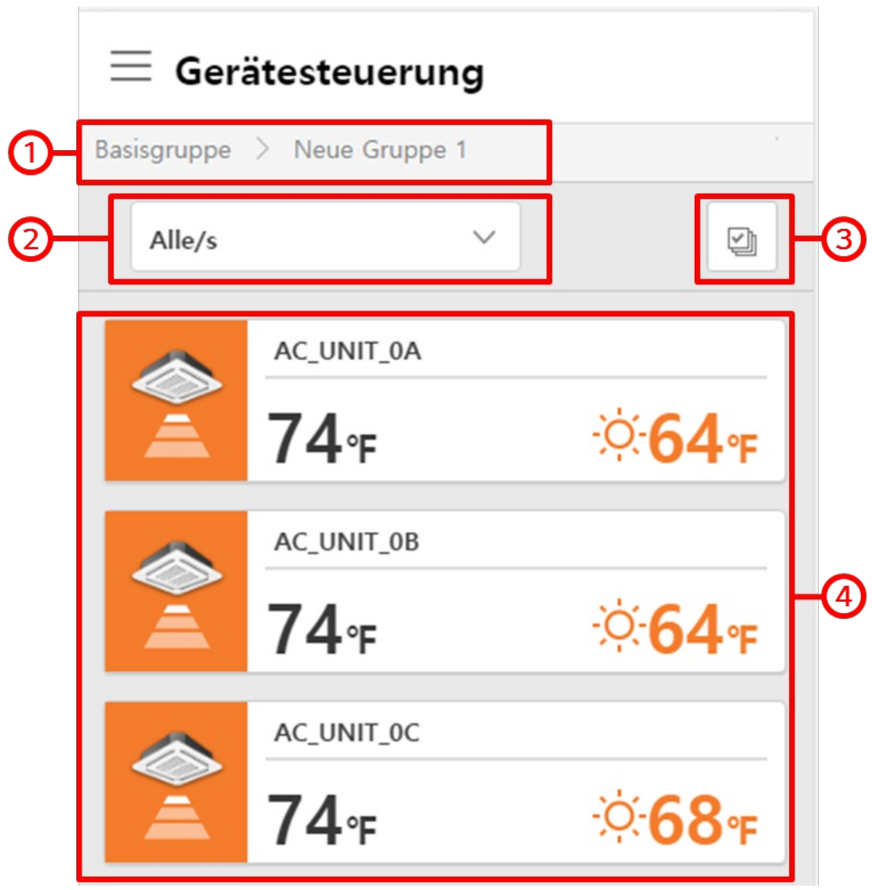
- Bildschirmstruktur und Funktion

[Steuerungsfenster]

- Steuerung jedes Geräts
- Geräteinformationen

Bildschirmstruktur und Funktion

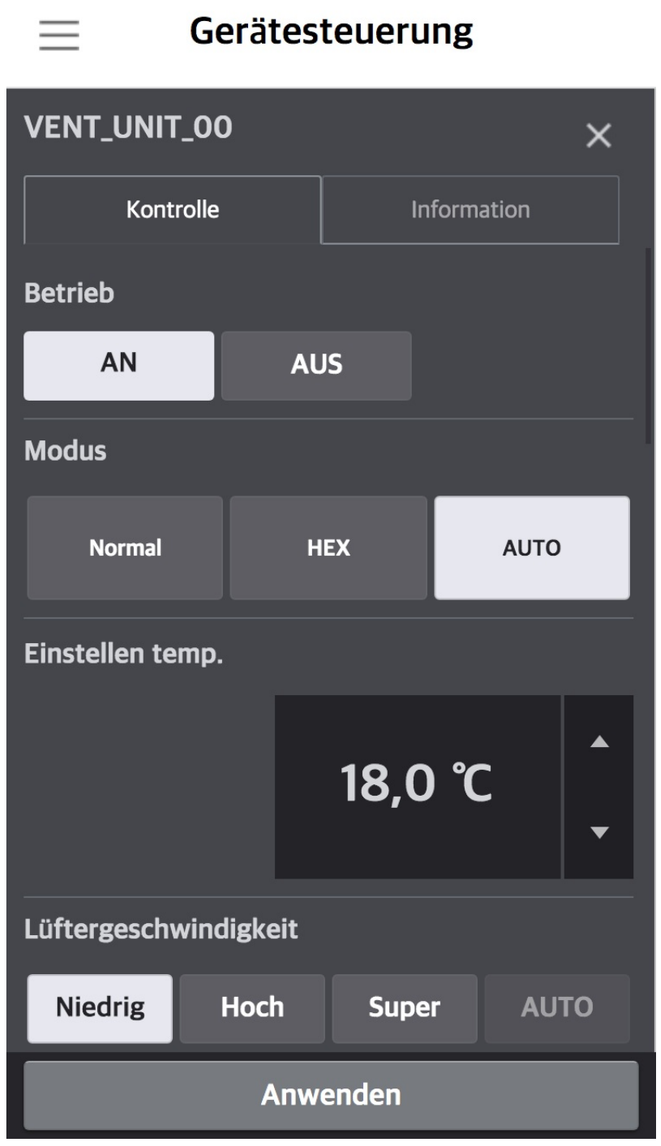
1. In der linken Menütaste klicken Sie das **[Steuerung]** > **[Gerätesteuerung]** Menü an.
   - Der Gerätesteuerungsbildschirm wird angezeigt.



Nr.	Kategorie	Inhalte
①	Gruppeninformation	Gruppenname und Gruppenstandort
②	Filtern	Gerätekategoriefilterung
③	Mehrfachauswahl	Beim Klicken mehrere Geräte auswählen
④	Gerätabschnitt	Prüfen Sie die Information der Geräteinstellung in der Gruppe

Steuerung jedes Geräts

Wenn im Geräteabschnitt ein Gerät ausgewählt wird, wird ein Steuerungsfenster errichtet, wie auf dem folgenden Bildschirm. Durch das Steuerungsfenster können Sie das ausgewählte Gerät steuern.



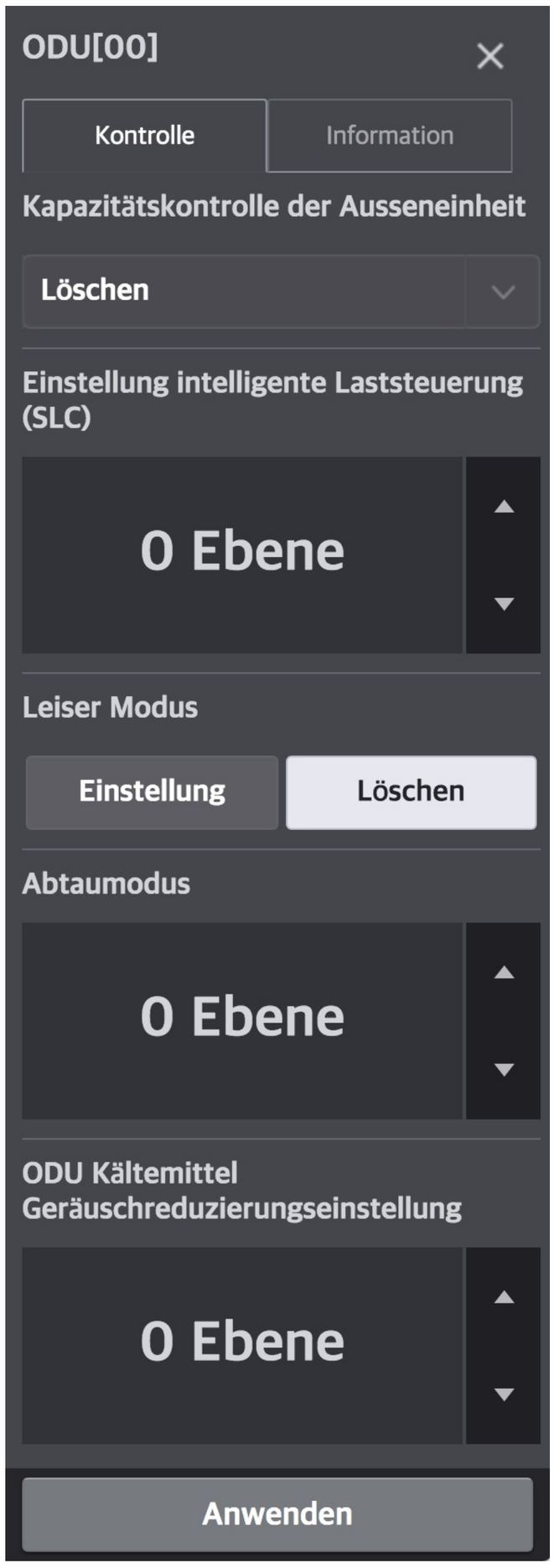
Hinweis

- Die detaillierte Gerätesteuerungsgrenze kann für jedes Gerät unterschiedlich zum aktuellen Gerät sein, also stellen Sie sicher, dass Sie sich auf das entsprechende Gerätehandbuch beziehen.
- Die ACS E/A-Geräte können der Einstellung entsprechend unterschiedliche Steuerungstoolnamen, Geräte, Obergrenzen, Untergrenzen, usw. besitzen.

Detailsteuerungen für jedes Gerät

- Außengerät
- IE
  IE (2er-Einstellung)
- ERV
- ERV DX
- Bodenmontage Entlüftung
- Heating
- AHU
- Scroll-Kühler
- Screw-Kühler
- Zentrifugalkühler
- Scroll- Kühler Mini
- Absorptionskühler
- DOKIT
- DO
- AO
- Luftreiniger

Außengerät



Kategorie	Inhalte
Kapazitätskontrolle der Ausseneinheit	• Drücken Sie aus die **[▼]**-Taste, um die Mengensteuerung-Betriebsrate festzulegen (%)
Einstellung intelligente Laststeuerung (SLC)	• Drücken Sie auf die **[▲]/[▼]**-Taste, um die Steuerungsphase der intelligenten Last (0-Ebene, 1-Ebene, 2-Ebene, 3-Ebene, 4-Ebene) einzustellen
Leiser Modus	• **[Einstellen/Löschen]**-Taste: Einstellung/Abbruch der Betriebseinstellung für die Geräuschreduzierung des Außengeräts
Abtaumodus	• Drücken Sie auf die **[▲]/[▼]**-Taste, um die Abtaumodusphase des Außengeräts (0-Ebene, 1-Ebene, 2-Ebene, 3-Ebene) einzustellen
ODU Kältemittel Geräuschreduzierungseinstellung	• Drücken Sie auf die **[▲]/[▼]**-Taste, um die Geräuschunterdrückungsphase für das Kältemittel der Innenraumgeräteeinheit (0-Ebene, 1-Ebene, 2-Ebene) einzustellen

Hinweis

Sollte in der Zentralsteuerung der geräuscharme Außengerätebetrieb verwendet werden, müssen Sie in der Fernbedienung der installierten Innenraumgeräteeinheiten die Einstellung [Installationseinstellung] > [Leiser Modus] auf „ODU“ einstellen.

IE



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um • **[Lüfter]** Taste: Luftreinigungsbetrieb. Wird Nur Wind ausgewählt, wird die eingestellte Temperatur für das Gerät nicht angewandt • **[DRY]** Taste: Entfernt die Feuchtigkeit in der Regenzeit oder wenn die Feuchtigkeit hoch ist. Wird Entfeuchtung ausgewählt, wird die eingestellte Temperatur für das Gerät nicht angewandt • **[AUTO]** Taste: Schaltet auf den Automatikmodus um
Luftreinigung	Luftreinigungssteuerung nur für die Luftreinigungsfunktion, welche die Innenraumgeräteeinheit unterstützt • Einzelbetrieb der Luftreinigung 1) Im Ruhezustand der Innenraumgeräteeinheit wird im Fall der Luftreinigung **[Einstellung]**, erfolgt der Luftreinigungseinzelbetrieb nur mit Wind (automatischem Wind) (Während der Luftreinigung werden Einzelbetrieb, Modussperre und Windmengensperre nicht überprüft) 2) Während des Luftreinigungseinzelbetriebs wird im **[AUS]**- oder Luftreinigung **[Löschen]**-Betrieb die Luftreinigung im vorherigen Modus und für die vorherige Windmenge abgebrochen (Im Falle der kombinierten Modus- oder Windmengensteuerung wird die Steuerung jedoch mittels kontrolliertem Modus und Windmenge ausgeführt) • Zusätzlicher Betrieb der Luftreinigung 1) Im Innenraumgeräteeinheits-AUSpzustand findet im Fall des Betriebsstatus **[AN]** und bei Luftreinigung **[Einstellung]** im aktuellen Modus ein zusätzlicher Luftreinigungsbetrieb statt 2) Im Innenraumgeräteeinheits-Betriebszustand findet im Fall der Luftreinigung **[Einstellung]** im aktuellen Modus ein zusätzlicher Luftreinigungsbetrieb statt 3) Während des zusätzlichen Luftreinigungsbetriebs wird im Fall des **[AUS]**-Betriebs der Betrieb angehalten

	4) Während des zusätzlichen Luftreinigungsbetriebs wird im Fall der **[Löschen]**-Luftreinigung der Betrieb abgebrochen
Einstellen temperatur	Drücken Sie die **[▲]/[▼]** Taste, um die gewünschte Temperatur einzustellen
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[MEDIUM]** Taste: Stellt die Lüftergeschwindigkeit auf normal • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[AUTO]** Taste: **[Niedrig]**-**[MEDIUM]**-**[Hoch]** automatisches Umschalten
Swing	• **[Einstellung/Löschen]** Taste: AN/AUS die automatische Drehfunktion des Lüfters
Eingestellter Temperaturbereich	Stellt der Benutzer die gewünschte Temperatur individuell ein, ist es möglich, die gewünschte Temperatur außerhalb der vorgesehenen Temperaturgrenzen einzustellen
Personenerkennungsmodus - Gelernter Stromsparmodus Ein/Aus	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers EIN-/-AUS-Energiespareinstellung/-abbruch
Personenerkennungsmodus - Temperatur-Stromsparmodus	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Temperatur-Energiespareinstellung/-abbruch
Personenerkennungsmodus - Leerlaufzeit-Einstellung (Minute)	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers Stellen Sie die Leer-Entscheidungszeit auf 5, 10, 15, 30, 60 oder 90 Minuten ein.
Personenerkennungsmodus - Direkter Wind	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Einstellung/Abbruch des direkten Windes
Personenerkennungsmodus - Indirekter Wind	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Einstellung/Abbruch des indirekten Windes
Energiesparmodus Angenehm	• **[Einstellen/Löschen]**-Taste: angenehme Einstellung der Energiesparfunktion einstellen/abbrechen • Sie können die Taste **[▲]/[▼]** drücken, um die Phase einzustellen Nur wenn sich die Innenraumgeräteeinheit im Kühlbetrieb befindet, ist eine angenehme Energiesparsteuerung möglich
Vorfilter-Wechselalarm	• **[Löschen]**-Taste: Im Falle eines Vorfilter-Wechselalarms wird der Vorfilter-Wechselalarm aufgehoben
Feinstaubfilter-Wechselalarm	• **[Löschen]**-Taste: Im Falle eines Feinstaubfilter-Wechselalarms wird der Feinstaubfilter-Wechselalarm aufgehoben
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann
Sperrmodus	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen sperren, so dass der Benutzer keine Moduseinstellung mit der individuellen Fernsteuerung steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Lüftergeschwindigkeitneinstellung mit der individuellen Fernsteuerung nicht steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Temperatureinstellung mit der individuellen Fernsteuerung nicht steuern kann
AutoWechsel(Besetzt)	Es handelt sich um eine Funktion, um automatisch auf Kühlbetrieb umzuschalten, sollte die Innentemperatur die obere Grenztemperatur übersteigen, oder auf Heizbetrieb, sollte sie unter der unteren Grenztemperatur liegen, und auf „Nur Wind“-Betrieb, falls sie zwischen der oberen Grenztemperatur und der unteren Grenztemperatur liegen sollte (wird nur vom Außengerät mit Kühlung/Heizung unterstützt) • **[Einstellung/Löschen]** Taste: Einstellung/Löschen die automatische Umschaltung
Untergrenzen-/Obergrenzentemperatur	Einstellung der automatischen Umschaltung der Untergrenzentemperatur und der Obergrenzentemperatur
AutoWechsel(Besetzt) der Lüftergeschwindigkeit	Wählen Sie den Lüftergeschwindigkeitnwert aus, um den automatischen Umschaltbetrieb der Innengerät einzustellen • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[MEDIUM]** Taste: Stellt die Lüftergeschwindigkeit auf normal • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[AUTO]** Taste: **[Niedrig]**-**[MEDIUM]**-**[Hoch]** automatisches Umschalten
Rückschlag(Nicht besetzt)	Die Funktion zur Erhaltung der Raumtemperatur, wo das Gerät installiert wird, innerhalb einer bestimmten Grenze (Nur durch die Kühlung/Heizung des gleichzeitigen Außengerätetypen unterstützt) • **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Rückschlag(Nicht besetzt)
Kühlstart	Drücken Sie die **[▲]/[▼]** Taste, um die Kühlbetriebsstarttemperatur einzustellen (21˚C~40˚C)
Heizstart	Drücken Sie die **[▲]/[▼]** Taste, um die Heizungsbetriebsstarttemperatur einzustellen (1˚C~20˚C)
Kombi-Heizungsregelung	(Wird nur bei bestimmten Innen- und Außeneinheiten unterstützt) Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Steuerung gemäß Außentemperatur
Modus	Dies wird nur aktiviert, wenn die Kombi-Heizungsregelung eingestellt ist. • Schaltfläche **[AUTO]** : Stellt den Steuerungsmodus auf Automatikbetrieb • Schaltfläche **[Manual]** : Stellt den Steuerungsmodus auf Manuell Sie können die Steuerung von Wärmepumpe und Heizung aktivieren/deaktivieren. Sie können nicht die Steuerungen sowohl von Wärmepumpe als auch Heizung deaktivieren.
Temp. 1	Diese kann ausschließlich im Automatikmodus aktiviert werden. Sie können Temp. 1 als Außentemperatur einstellen. Je nach den eingestellten Temperaturwerten arbeiten Wärmepumpe und Heizung automatisch. Drücken Sie **[▲]/[▼]** zum Einstellen von Temp. 1 (-23˚C-16˚C).
Temp. 2	Diese kann ausschließlich im Automatikmodus aktiviert werden. Sie können Temp. 2 als Außentemperatur einstellen. Je nach den eingestellten Temperaturwerten arbeiten Wärmepumpe und Heizung automatisch. Drücken Sie **[▲]/[▼]** zum Einstellen von Temp. 2 (-23˚C-51˚C).
Wärmepumpe	Diese kann ausschließlich im manuellen Modus aktiviert werden. Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Wärmepumpensteuerung.
Heizung	Diese kann ausschließlich im manuellen Modus aktiviert werden. Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Heizungssteuerung.
Smart Care	Nur aktiviert, wenn ein KI-Controller angeschlossen ist Schaltfläche **[Festlegen/Aufheben]**: Smart Care aktivieren/deaktivieren
Kooperative Steuerung	Nur aktiviert, wenn ein KI-Controller angeschlossen ist Schaltfläche **[Festlegen/Aufheben]**: Kooperative Steuerung aktivieren/deaktivieren
UVnano	Pouze pro režim UVnano - podpora vnitřní jednotky, režim UVnano - ovládání Schaltfläche **[Festlegen/Aufheben]**: UVnano . aktivieren/deaktivieren

IE (2er-Einstellung)

Falls die 2er-Einstellungs-Funktion, welche die Außengerät/Innenraumgeräteeinheit/Fernbedienung unterstützt verwendet wird und in **[Einstellung]** > **[Installieren]** , und der IE 2Set als **IE** ausgewählt wird, dann wird das Innenraumgeräteeinheit-2er-Einstellungs-Steuerungsfenster auf der rechten Seite generiert, wie es im folgenden Bildschirm gezeigt wird.



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um • **[Lüfter]** Taste: Luftreinigungsbetrieb. Wird Nur Wind ausgewählt, wird die eingestellte Temperatur für das Gerät nicht angewandt • **[DRY]** Taste: Entfernt die Feuchtigkeit in der Regenzeit oder wenn die Feuchtigkeit hoch ist. Wird Entfeuchtung ausgewählt, wird die eingestellte Temperatur für das Gerät nicht angewandt • **[AUTO]** Taste: Schaltet auf den Automatikmodus um
Luftreinigung	Luftreinigungssteuerung nur für die Luftreinigungsfunktion, welche die Innenraumgeräteeinheit unterstützt • Einzelbetrieb der Luftreinigung 1) Im Ruhezustand der Innenraumgeräteeinheit wird im Fall der Luftreinigung **[Einstellung]**, erfolgt der Luftreinigungseinzelbetrieb nur mit Wind (automatischem Wind) (Während der Luftreinigung werden Einzelbetrieb, Modussperre und Windmengensperre nicht überprüft) 2) Während des Luftreinigungseinzelbetriebs wird im **[AUS]**- oder Luftreinigung **[Löschen]**-Betrieb die Luftreinigung im vorherigen Modus und für die vorherige Windmenge abgebrochen (Im Falle der kombinierten Modus- oder Windmengensteuerung wird die Steuerung jedoch mittels kontrolliertem Modus und Windmenge ausgeführt) • Zusätzlicher Betrieb der Luftreinigung 1) Im Innenraumgeräteeinheits-AUSpzustand findet im Fall des Betriebsstatus **[AN]** und bei Luftreinigung **[Einstellung]** im aktuellen Modus ein zusätzlicher Luftreinigungsbetrieb statt 2) Im Innenraumgeräteeinheits-Betriebszustand findet im Fall der Luftreinigung **[Einstellung]** im aktuellen Modus ein zusätzlicher Luftreinigungsbetrieb statt 3) Während des zusätzlichen Luftreinigungsbetriebs wird im Fall des **[AUS]**-Betriebs der Betrieb angehalten 4) Während des zusätzlichen Luftreinigungsbetriebs wird im Fall der **[Löschen]**-Luftreinigung der Betrieb abgebrochen
	Funktion, um den Raum mit der entsprechenden Innenraumgeräteeinheit als belegt oder leer festzulegen

Bewegungserkennung	• **[Belegt]**-Taste: Auslastungseinstellung • **[Nicht programmiert]**-Taste: Leereinstellung
Temperatur der Kühleinstellung	Drücken Sie die Taste **[▲]/[▼]**, um die Kühleinstelltemperatur festzulegen
Heizeinstelltemperatur	Drücken Sie die Taste **[▲]/[▼]**, um die Heizeinstelltemperatur festzulegen
Untergrenze/Obergrenze der Kühltemperatur	Einstellung der Untergrenze/Obergrenze der Kühltemperatur
Untergrenze/Obergrenze der Heiztemperatur	Einstellung der Untergrenze/Obergrenze der Heiztemperatur
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[MEDIUM]** Taste: Stellt die Lüftergeschwindigkeit auf normal • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[AUTO]** Taste: **[Niedrig]**-**[MEDIUM]**-**[Hoch]** automatisches Umschalten
Swing	• **[Einstellung/Löschen]** Taste: AN/AUS die automatische Drehfunktion des Lüfters
Personenerkennungsmodus - Gelernter Stromsparmodus Ein/Aus	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers EIN-/-AUS-Energiespareinstellung/-abbruch
Personenerkennungsmodus - Temperatur-Stromsparmodus	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Temperatur-Energiespareinstellung/-abbruch
Personenerkennungsmodus - Leerlaufzeit-Einstellung (Minute)	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers Stellen Sie die Leer-Entscheidungszeit auf 5, 10, 15, 30, 60 oder 90 Minuten ein.
Personenerkennungsmodus - Direkter Wind	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Einstellung/Abbruch des direkten Windes
Personenerkennungsmodus - Indirekter Wind	Nur zur Erkennung des menschlichen Körpers, welcher die Innenraumgeräteeinheit unterstützt, für die Erkennungssteuerung des menschlichen Körpers • **[Einstellen/Löschen]**-Taste: Erkennung des menschlichen Körpers Einstellung/Abbruch des indirekten Windes
Energiesparmodus Angenehm	• **[Einstellen/Löschen]**-Taste: angenehme Einstellung der Energiesparfunktion einstellen/abbrechen • Sie können die Taste **[▲]/[▼]** drücken, um die Phase einzustellen Nur wenn sich die Innenraumgeräteeinheit im Kühlbetrieb befindet, ist eine angenehme Energiesparsteuerung möglich
Vorfilter-Wechselalarm	• **[Löschen]**-Taste: Im Falle eines Vorfilter-Wechselalarms wird der Vorfilter-Wechselalarm aufgehoben
Feinstaubfilter-Wechselalarm	• **[Löschen]**-Taste: Im Falle eines Feinstaubfilter-Wechselalarms wird der Feinstaubfilter-Wechselalarm aufgehoben
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann
Sperrmodus	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen sperren, so dass der Benutzer keine Moduseinstellung mit der individuellen Fernsteuerung steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Lüftergeschwindigkeitneinstellung mit der individuellen Fernsteuerung nicht steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Temperatureinstellung mit der individuellen Fernsteuerung nicht steuern kann
Kombi-Heizungsregelung	(Wird nur bei bestimmten Innen- und Außeneinheiten unterstützt) Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Steuerung gemäß Außentemperatur.
Modus	Dies wird nur aktiviert, wenn die Kombi-Heizungsregelung eingestellt ist. • Schaltfläche **[AUTO]** : Stellt den Steuerungsmodus auf Automatikbetrieb. • Schaltfläche **[Manual]** : Stellt den Steuerungsmodus auf Manuell. Sie können die Steuerung von Wärmepumpe und Heizung aktivieren/deaktivieren. Sie können nicht die Steuerungen sowohl von Wärmepumpe als auch Heizung deaktivieren.
Temp. 1	Diese kann ausschließlich im Automatikmodus aktiviert werden. Sie können Temp. 1 als Außentemperatur einstellen. Je nach den eingestellten Temperaturwerten arbeiten Wärmepumpe und Heizung automatisch. • Drücken Sie **[▲]/[▼]** zum Einstellen von Temp. 1 (-23˚C-16˚C).
Temp. 2	Diese kann ausschließlich im Automatikmodus aktiviert werden. Sie können Temp. 2 als Außentemperatur einstellen. Je nach den eingestellten Temperaturwerten arbeiten Wärmepumpe und Heizung automatisch. • Drücken Sie **[▲]/[▼]** zum Einstellen von Temp. 2 (-23˚C-51˚C).
Wärmepumpe	Diese kann ausschließlich im manuellen Modus aktiviert werden. • Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Wärmepumpensteuerung.
Heizung	Diese kann ausschließlich im manuellen Modus aktiviert werden. • Schaltfläche **[Ein/Aus]** : Aktiviert/deaktiviert die Heizungssteuerung.
Smart Care	Nur aktiviert, wenn ein KI-Controller angeschlossen ist Schaltfläche **[Festlegen/Aufheben]**: Smart Care aktivieren/deaktivieren
Kooperative Steuerung	Nur aktiviert, wenn ein KI-Controller angeschlossen ist Schaltfläche **[Festlegen/Aufheben]**: Kooperative Steuerung aktivieren/deaktivieren
UVnano	Pouze pro režim UVnano - podpora vnitřní jednotky, režim UVnano - ovládání Schaltfläche **[Festlegen/Aufheben]**: UVnano . aktivieren/deaktivieren

Hinweis

IE 2Set

- Die entsprechende Funktion kann nur im 2er-Einstellung-Automatikbetrieb für Innenraum-/Außenluft verwendet werden. (Ob jedes Gerät 2er-Einstellung unterstützt, entnehmen Sie bitte dem Handbuch des entsprechenden Geräts.)
- Überschreiben ist eine Funktion, die über die Fernbedienung eingestellt werden kann. Informationen zum Inhalt der Überschreiben-Funktion finden Sie im Handbuch der Fernbedienung.
- Im IE 2Set wird, gemeinsam mit dem Auto-Symbol, der tatsächliche Betriebsmodus (Kühlung, Heizung) des Produkts angezeigt.

Bewegungserkennung

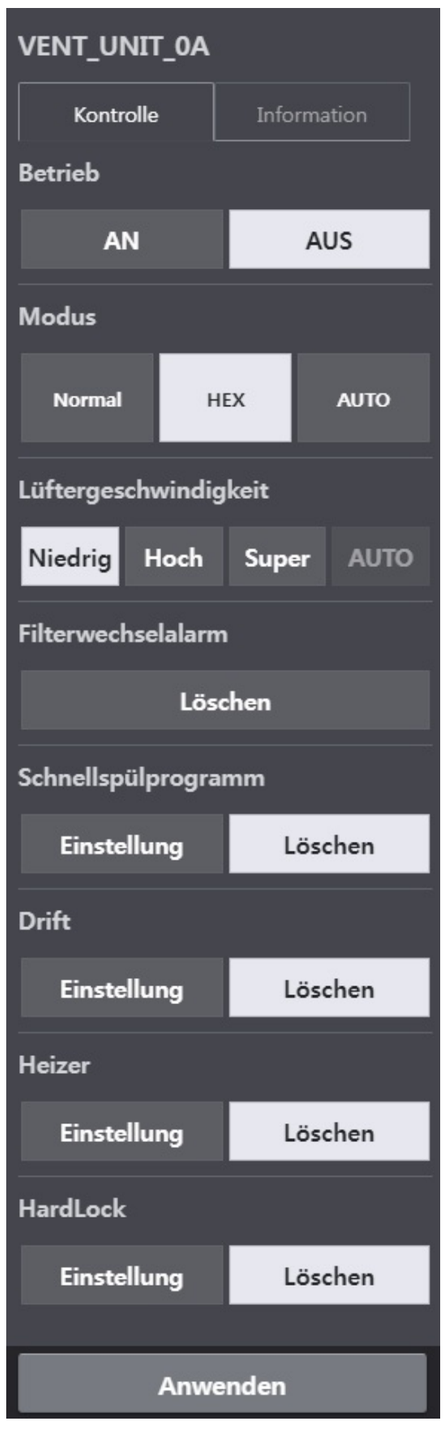
- Wann immer der Auslastungsmelder mit der Innenraumgeräteeinheit verbunden ist, hat die Einstellung über die Zentralsteuerung Vorrang vor dem entsprechenden Auslastungsmelder. Informationen bezüglich des Inhalts des Auslastungsmelders finden Sie in der Bedienungsanleitung für die Innenraumgeräteeinheit oder des Trockenkontakts.

- Sobald die belegte Einstellung geändert wird, sind die automatisch eingestellte Kühleinstelltemperatur und die Heizeinstelltemperatur die als letzte ausgeführte Kühleinstelltemperatur und Heizeinstelltemperatur des Zeitplans, und sollte kein zuvor ausgeführter Ablaufplan existieren, wird dieser als Standardwert festgelegt.

  (Beispiel)
  09:00 - 12:00: Ausgelastet/Kühleinstelltemperatur 27°C/Heizeinstelltemperatur 18°C
  12:00 - 13:00: Ausgelastet/Kühleinstelltemperatur 29°C/Heizeinstelltemperatur 16°C
  13:00 - 15:00: Ausgelastet/Kühleinstelltemperatur 26°C/Heizeinstelltemperatur 19°C

  Sollte es nach 15:00 Uhr ohne Zeitplan leer sein, beträgt die Kühleinstelltemperatur 29°C und die Heizeinstelltemperatur 16°C, und falls sie ausgelastet ist, ändert sich die Kühleinstelltemperatur auf 26°C und die Heizeinstelltemperatur auf 19°C.

ERV



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[Normal]** Taste: Verwirbelt die verbrauchte Luft, ohne den elektrischen Wärmetauscher zu durchlaufen • **[HEX]** Taste: Wirbelt sowohl die Luftversorgung/verbrauchte Luft durch den elektrischen Wärmetauscher • **[AUTO]** Taste: Schaltet in den Vier-Jahreszeiten-Modus
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[Super]** Taste: Stellt die Lüftergeschwindigkeit auf Max. Geschwindigkeit • **[AUTO]** Taste: **[Niedrig]**-**[Hoch]**-**[Super]** automatische Umschaltung - Benutzereinstellung ist unmöglich - Wird Drift/Schnellspülprogramm eingestellt, wird die **[AUTO]** Lüftergeschwindigkeit ausgewählt - Wird Drift/Schnellspülprogramm gelöscht, wird die **[Hoch]** Lüftergeschwindigkeit ausgewählt - Während des **[AUTO]** Betriebs, wenn **[Niedrig]/[Hoch]/[Super]** ausgewählt wird, wird die Drift/Schnellspülprogramm-Funktion im Betrieb gelöscht
Filterwechselalarm	• **[Löschen]**-Taste: Im Falle eines Filterwechselalarms sorgt es dafür dass der Filterwechselalarm aufgehoben wird
Zusatzfunktion	• Schnellspülprogramm **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Schnellspülprogramm-Funktion (Wird die Schnells-Funktion ausgewählt, wird die Drift-Funktion gelöscht) • Drift **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Drift-Funktion (Wird die Drift-Funktion ausgewählt, wird die Schnells-Funktion gelöscht) • Heizer **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Heizer-Funktion
Luftkühlung um Mitternacht(NTFC)	• **[Einstellen/Löschen]**-Taste: Einstellen/Löschen der Nachtluftkühlfunktion, die zur Kühlung des Außengeräts verwendet werden kann, sollte die Außentemperatur nachts niedriger als die Basistemperatur sein
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann

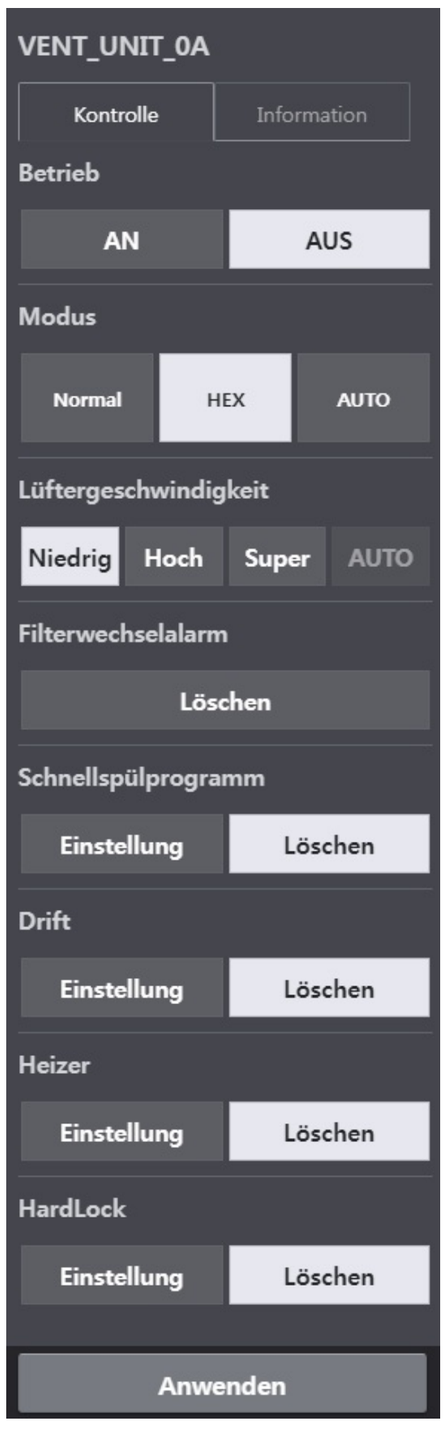
ERV DX



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[Normal]** Taste: Verwirbelt die verbrauchte Luft, ohne den elektrischen Wärmetauscher zu durchlaufen • **[HEX]** Taste: Wirbelt sowohl die Luftversorgung/verbrauchte Luft durch den elektrischen Wärmetauscher • **[AUTO]** Taste: Schaltet in den Vier-Jahreszeiten-Modus
Einstellen temperatur	Drücken Sie die **[▲]/[▼]** Taste, um die gewünschte Temperatur einzustellen
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[Super]** Taste: Stellt die Lüftergeschwindigkeit auf Max. Geschwindigkeit • **[AUTO]** Taste: **[Niedrig]**-**[Hoch]**-**[Super]** automatische Umschaltung - Benutzereinstellung ist unmöglich - Wird Drift/Schnellspülprogramm eingestellt, wird die **[AUTO]** Lüftergeschwindigkeit ausgewählt - Wird Drift/Schnellspülprogramm gelöscht, wird die **[Hoch]** Lüftergeschwindigkeit ausgewählt - Während des **[AUTO]** Betriebs, wenn **[Niedrig]/[Hoch]/[Super]** ausgewählt wird, wird die Drift/Schnellspülprogramm-Funktion im Betrieb gelöscht
Ko-Klimaanlage	• **[KÜHLEN]** Taste: Betreibt die ERV DX im Kühlungsmodus • **[AUTO]** Taste: Betreibt die ERV DX im auto • **[HEIZEN]** Taste: Betreibt die ERV DX als Heizungsmodus • **[AUS]** Taste: AUS die Klimaanlage der ERV DX
Eingestellter Temperaturbereich	Stellt der Benutzer die gewünschte Temperatur individuell ein, ist es möglich, die gewünschte Temperatur außerhalb der vorgesehenen Temperaturgrenzen einzustellen
Filterwechselalarm	• **[Löschen]**-Taste: Im Falle eines Filterwechselalarms sorgt es dafür dass der Filterwechselalarm aufgehoben wird
Zusatzfunktion	• Schnellspülprogramm **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Schnellspülprogramm-Funktion (Wird die Schnells-Funktion ausgewählt, wird die Drift-Funktion gelöscht) • Drift **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Drift-Funktion (Wird die Drift-Funktion ausgewählt, wird die Schnells-Funktion gelöscht) • Heizer **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Heizer-Funktion • Befeuchten **[Einstellen]** Taste: Einstellung die Befeuchtens-Funktion (nur für den Klimaanlagenheizungsmodus)
Luftkühlung um Mitternacht(NTFC)	• **[Einstellen/Löschen]**-Taste: Einstellen/Löschen der Nachtluftkühlfunktion, die zur Kühlung des Außengeräts verwendet werden kann, sollte die Außentemperatur nachts niedriger als die Basistemperatur sein
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann
Sperrmodus	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen sperren, so dass der Benutzer keine Moduseinstellung mit der individuellen Fernsteuerung steuern kann
Lüftersperre	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Lüftergeschwindigkeitneinstellung mit der individuellen Fernsteuerung nicht steuern kann
	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen die Sperre, so dass der Benutzer die Temperatureinstellung mit der individuellen

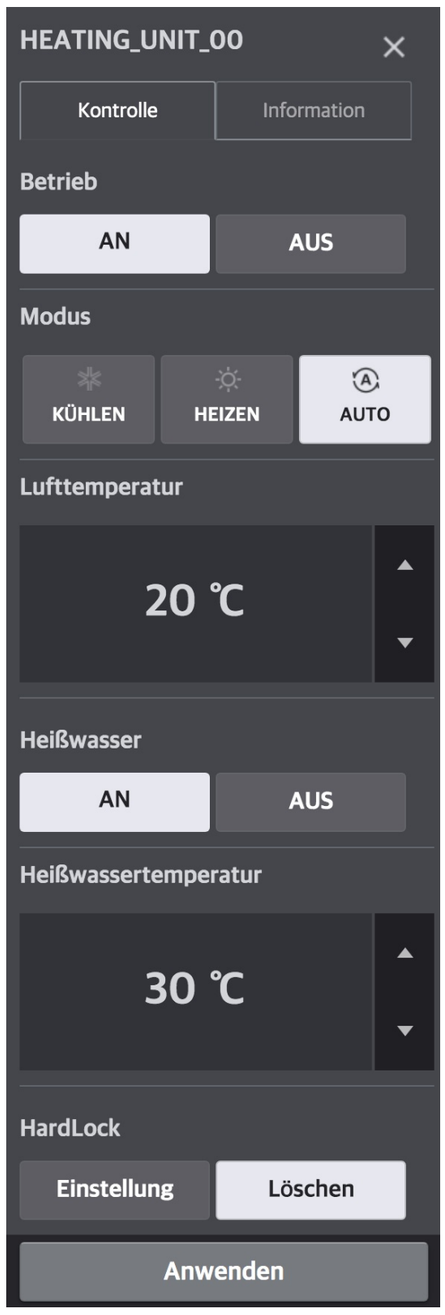
Lüftersperre	Fernsteuerung nicht steuern kann
Luftkühlungssperre um Mitternacht	• **[Einstellen/Löschen]**-Taste: Einstellen/Löschen des auf der Fernbedienung eingestellten Nachtluftkühlplans

Bodenmontage Entlüftung



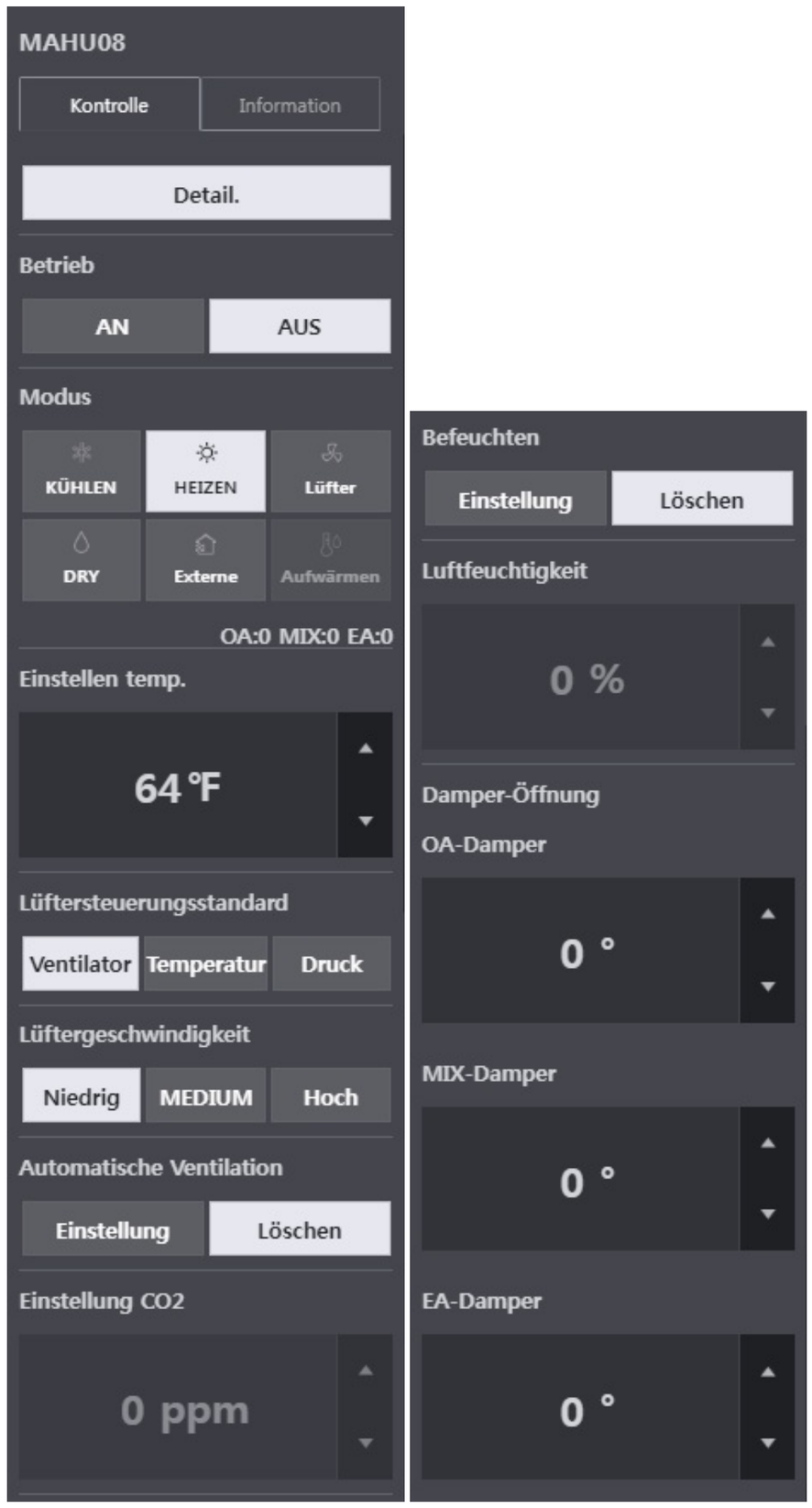
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[Normal]** Taste: Verwirbelt die verbrauchte Luft, ohne den elektrischen Wärmetauscher zu durchlaufen • **[HEX]** Taste: Wirbelt sowohl die Luftversorgung/verbrauchte Luft durch den elektrischen Wärmetauscher • **[AUTO]** Taste: Schaltet in den Vier-Jahreszeiten-Modus
Lüftergeschwindigkeit	Windstärkeneinstellung • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell • **[Super]** Taste: Stellt die Lüftergeschwindigkeit auf Max. Geschwindigkeit • **[AUTO]** Taste: **[Niedrig]**-**[Hoch]**-**[Super]** automatische Umschaltung - Benutzereinstellung ist unmöglich - Wird Drift/Schnellspülprogramm eingestellt, wird die **[AUTO]** Lüftergeschwindigkeit ausgewählt - Wird Drift/Schnellspülprogramm gelöscht, wird die **[Hoch]** Lüftergeschwindigkeit ausgewählt - Während des **[AUTO]** Betriebs, wenn **[Niedrig]/[Hoch]/[Super]** ausgewählt wird, wird die Drift/Schnellspülprogramm-Funktion im Betrieb gelöscht
Filterwechselalarm	• **[Löschen]**-Taste: Im Falle eines Filterwechselalarms sorgt es dafür dass der Filterwechselalarm aufgehoben wird
Zusatzfunktion	• Schnellspülprogramm **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Schnellspülprogramm-Funktion (Wird die Schnells-Funktion ausgewählt, wird die Drift-Funktion gelöscht) • Drift **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Drift-Funktion (Wird die Drift-Funktion ausgewählt, wird die Schnells-Funktion gelöscht) • Heizer **[Einstellen/Löschen]** Taste: Einstellung/Löschen die Heizer-Funktion
Luftkühlung um Mitternacht(NTFC)	• **[Einstellen/Löschen]**-Taste: Einstellen/Löschen der Nachtluftkühlfunktion, die zur Kühlung des Außengeräts verwendet werden kann, sollte die Außentemperatur nachts niedriger als die Basistemperatur sein
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann

Heating



Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um • **[AUTO]** Taste: Schaltet auf den Automatikmodus um
Heißwassertemperatur/Wassertemperatur ein/aus	Drücken Sie die **[▲]/[▼]** Taste, um die Heißwassertemperatur/Wassertemperatur ein/aus einzustellen Sie wird auf der Grundlage der in **[Einstellung]-[Installieren]** ausgewählten eingestellten Temperatur angezeigt • Wird **[Wasser aus/Wassereintritt]** ausgewählt, wird sie als Wasser-Innen-/Außentemperatur angezeigt • Wird **[Innen]** ausgewählt, wird sie als Lufttemperatur angezeigt
Heißwasser	• **[AN]** Taste: AN den Heißwasserbetrieb - Wird Heißwasser betrieben, während das Gerät sich im Automatik-/Kühlungsbetrieb befindet, werden der entsprechende Modus und das Heißwasser im Symbol des Inhaltsanzeigenabschnitts angezeigt - Wird Heißwasser betrieben, während das Gerät geAUS wird, wird das Symbol des Inhaltsanzeigenabschnitts aktiviert und Heißwasser wird angezeigt • **[AUS]** Taste: AUS den Heißwasserbetrieb
Heißwassertemperatur	Drücken Sie die **[▲]/[▼]** Taste, um die Heißwassertemperatur einzustellen
HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann

AHU

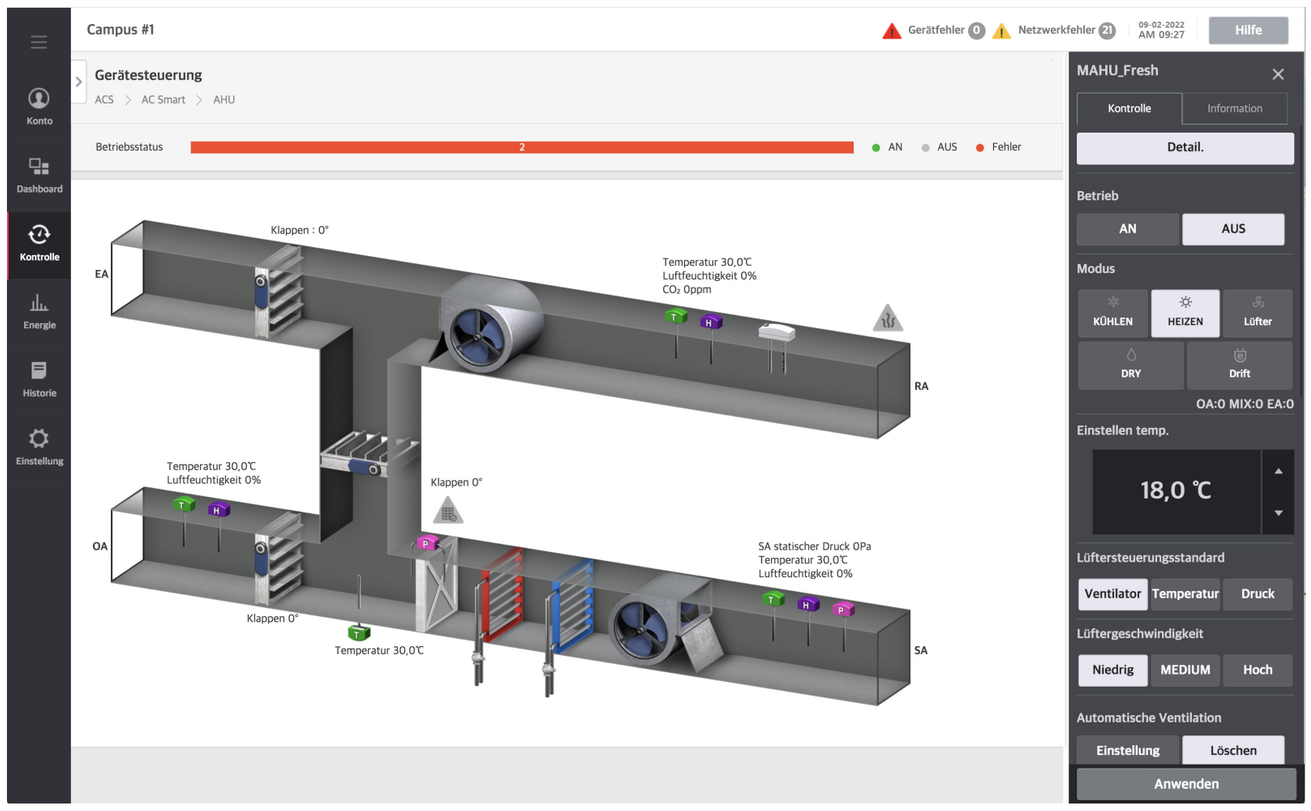


Kategorie	Inhalte
Details anzeigen	Drücken Sie **[Detail.]**, um Detailinformationen zu überprüfen (Mobile sind jedoch ausgeschlossen)
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	• **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um • **[Lüfter]** Taste: Luftreinigungsbetrieb. Wird Nur Wind ausgewählt, kann man die gewünschte Temperatur nicht einstellen • **[DRY]** Taste: Entfernt die Feuchtigkeit in der Regenzeit, oder wenn die Feuchtigkeit hoch ist. Wird Entfeuchtung ausgewählt, kann die gewünschte Temperatur nicht eingestellt werden • **[Drift]** Taste: Betrieb zum Finden des Betriebspunkts mit der besten Ventilationssystemeffizienz zum Drift. Die verschmutzte Innenluft wird laufend durch die größere EntlüftungsLüftergeschwindigkeit, als die Luftzufuhr, entfernt • Schaltfläche **[Nacherwärmung]** : hält Temperatur und Luftfeuchtigkeit bei aktiver Kühl-/Heizfunktion konstant. (Nur wenn die AHU-Nachheizspule verwendet wird.)
Einstellen temperatur	Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur einzustellen
Lüftersteuerungsstandard	• **[Ventilator]** Taste: Steuert den Lüfter aufgrund des Lüftergeschwindigkeitnstatus • **[Temperatur]** Taste: Steuert den Lüfter aufgrund des Temperaturstatus • **[Druck]** Taste: Steuert den Lüfter aufgrund des fixen Druckstatus
Lüftergeschwindigkeit	Das erscheint nur, wenn der Lüftersteuerungsstandard die Lüftergeschwindigkeit ist • **[Niedrig]** Taste: Stellt die Lüftergeschwindigkeit auf langsam • **[MEDIUM]** Taste: Stellt die Lüftergeschwindigkeit auf normal • **[Hoch]** Taste: Stellt die Lüftergeschwindigkeit auf schnell
Automatische Ventilation	Es tritt nur auf, wenn während der AHU-Geräteregistrierung die automatische Ventilation oder automatische Ventilation/Befeuchten als Zusatzfunktion ausgewählt wird • Automatische Ventilation **[Einstellen/Löschen]** Taste: AN/AUS die automatische Ventilation
Einstellung CO_2	Sie wird nur ermöglicht, wenn die automatische Ventilationsfunktion eingestellt wird Drücken Sie die Taste **[▲]/[▼]**, um in einer Einheit von 100 ppm innerhalb eines Bereichs von 100 ppm bis 2.000 ppm einzustellen
Befeuchten	Es erscheint nur, wenn während der AHU-Gerätregistrierung Befeuchten oder automatische Ventilation/Befeuchten als Zusatzfunktion ausgewählt wird • Befeuchten **[Einstellen/Löschen]** Taste: AN/AUS die Befeuchtensfunktion
Luftfeuchtigkeit	Sie wird nur ermöglicht, wenn die Befeuchtensfunktion eingestellt wird Drücken Sie die **[▲]/[▼]** Taste, um die Zielfeuchtigkeit einzustellen
Damper-Öffnung	• Drücken Sie **[OA-Damper]**: **[▲]/[▼]**-Taste, um den Öffnungswert der Außenluftklappe in Einheiten von 1º innerhalb 0º ~ 90º-Bereich festzulegen • Drücken Sie **[MIX-Damper]**: **[▲]/[▼]**-Taste, um den Öffnungswert der Mischerluftklappe in Einheiten von 1º innerhalb 0º ~ 90º-Bereich festzulegen • Drücken Sie **[EA-Damper]**: **[▲]/[▼]**-Taste, um den Öffnungswert der Luftauslassklappe in Einheiten von 1º innerhalb 0º ~ 90º-Bereich festzulegen Wenn Sie die **[Einstellung]-[Systemeinstellung]**'s **Damper-Öffnungsformel anwenden** als **einstellen**, einstellen Funktioniert sie als OA-Damper = Entlüften (EA), OA-Damper = MIX-Damper = 90

HardLock	• **[Einstellung/Löschen]** Taste: Einstellung/Löschen HardLock, so dass der Benutzer keine Funktion mit der individuellen Fernsteuerung steuern kann

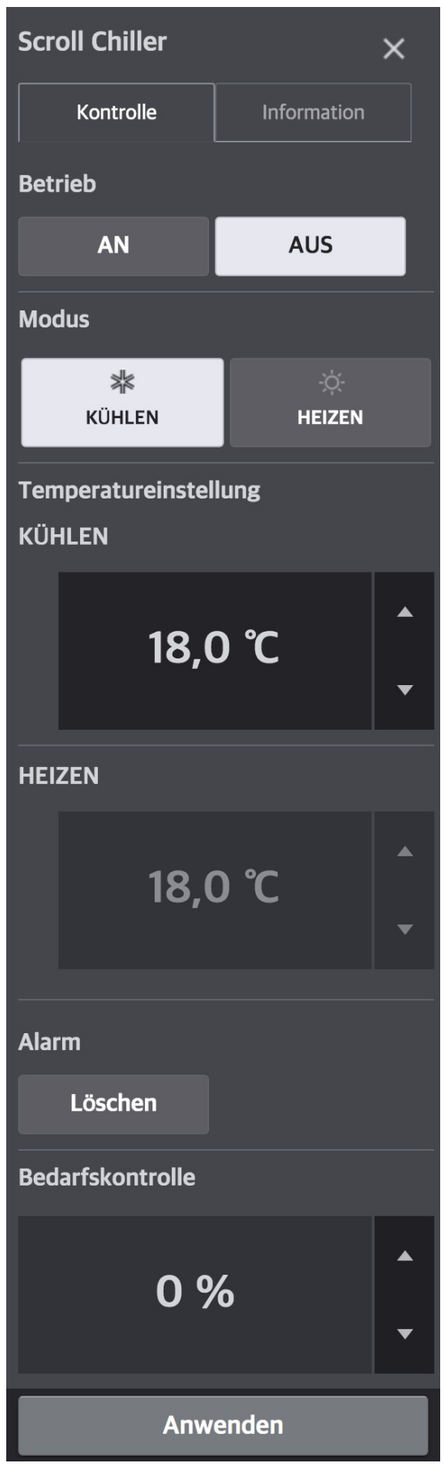
AHU im Detail anzeigen

Im Kontrollbildschirm des AHU können Sie die Taste **Details.]** drücken, um Detailinformationen zu überprüfen.



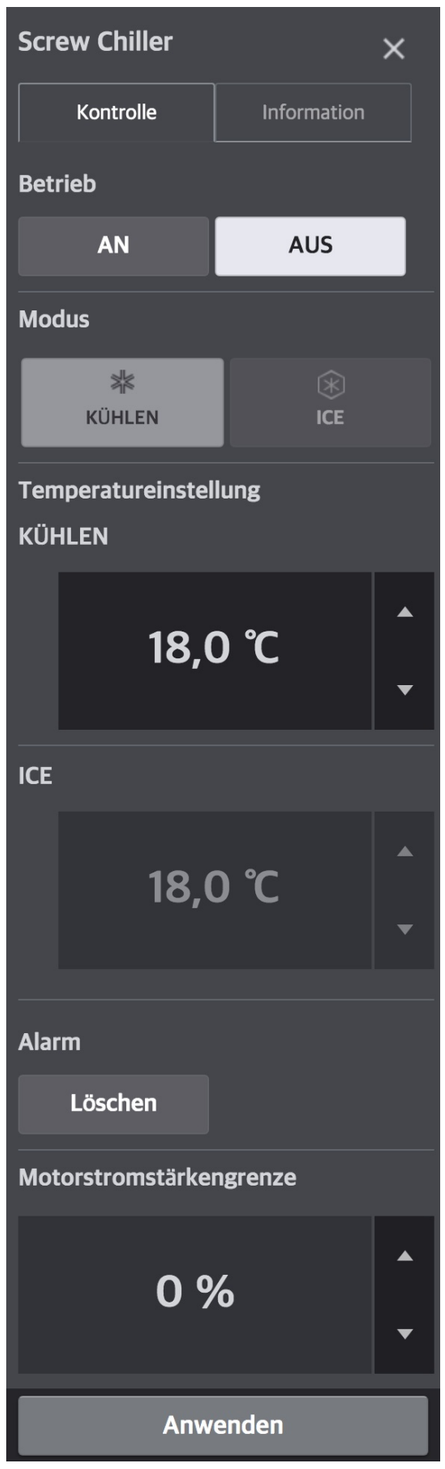
SPLIT DOAS

Scroll-Kühler



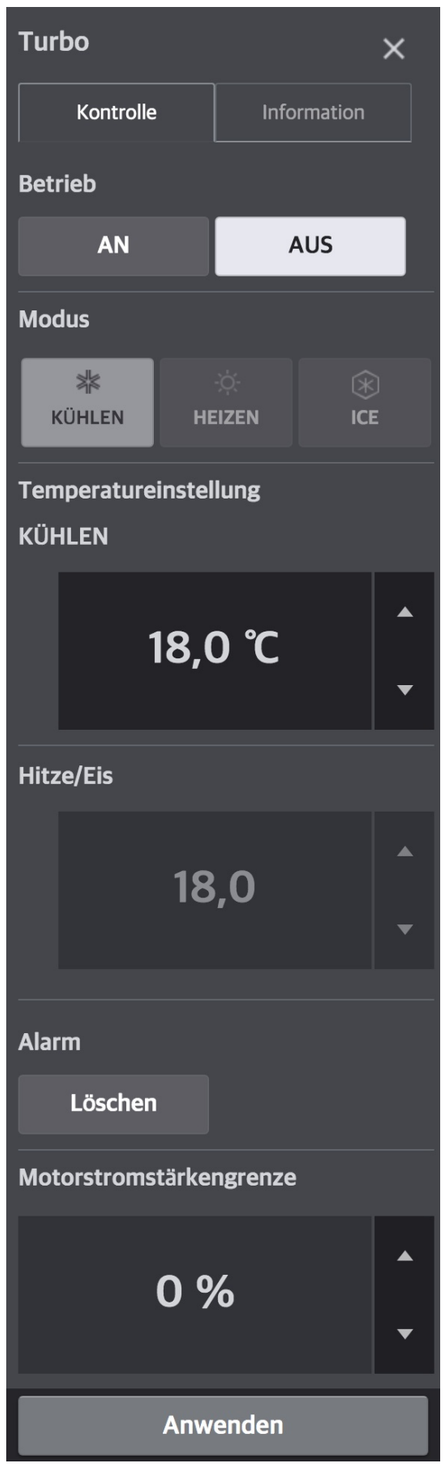
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	(Erscheint nur, wenn das Gerät den entsprechenden Modus unterstützt) • **[KÜHLEN]** Taste: Schaltet in den Kühlungsmodus um • **[HEIZEN]** Taste: Schaltet in den Heizmodus um
Einstellen temperatur	Stellt die Lastwasseraustrittstemperatur für die Innenkühlung/Heizung ein Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur des Kühlungsmodus und der Heizungsmodus einzustellen
Alarm	**[Löschen]** Taste: Löscht den Alarm während des Kältemaschine Alarms
Bedarfskontrolle	Drücken Sie die **[▲]/[▼]** Taste, um die Leistungsbedarfsgrenzenrate einzustellen

Screw-Kühler



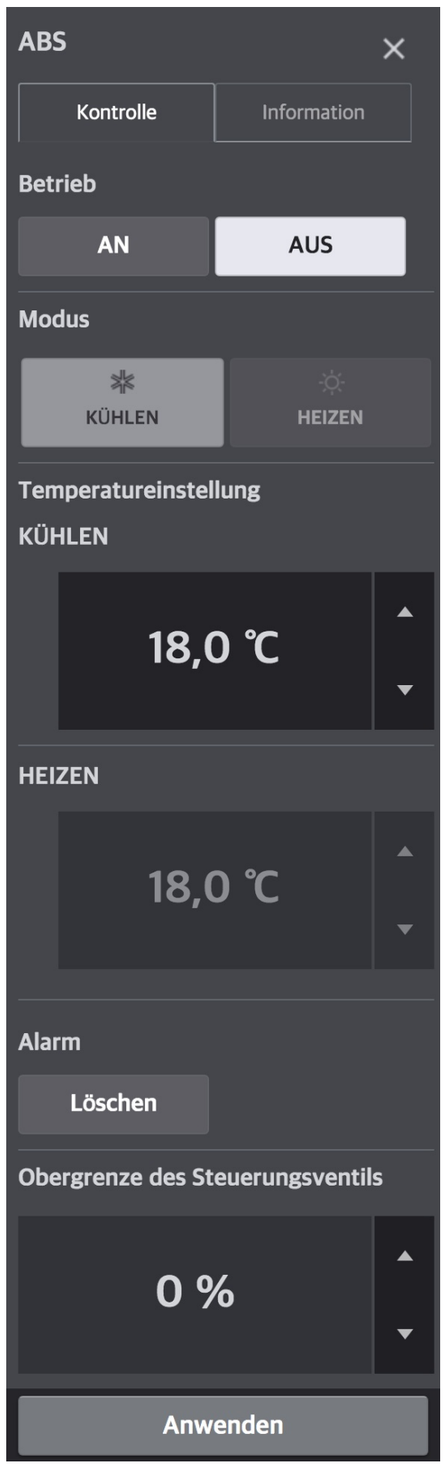
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	Die Modussteuerung ist unmöglich. Die Steuerung der eingestellten Temperatur des überwachten Modus
Einstellen temperatur	Stellt die Lastwasseraußentemperatur für die Innenkühlung/Eisherstellung ein Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur des Kühlungsmodus und des Eisherstellungsmodus einzustellen
Alarm	**[Löschen]** Taste: Löscht den Alarm während des Kältemaschine Alarms
Motorstromstärkengrenze	Drücken Sie die **[▲]/[▼]** Taste, um die aktuelle Motorgrenzenrate einzustellen

Zentrifugalkühler



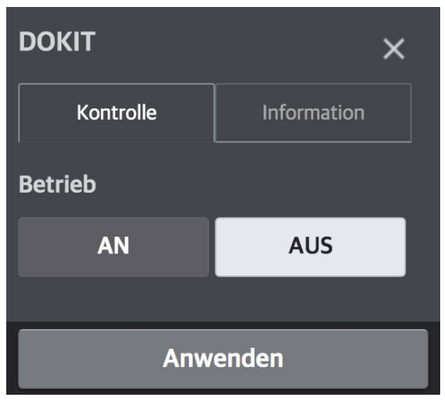
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	Die Modussteuerung ist unmöglich. Die Steuerung der eingestellten Temperatur des überwachten Modus
Einstellen temperatur	Stellt die Lastwasseraußentemperatur für die Innenkühlung/Heizung/Eisherstellung ein Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur des Kühlungsmodus und des Heizungs-/Eisherstellungsmodus einzustellen
Alarm	**[Löschen]** Taste: Löscht den Alarm während des Kältemaschine Alarms
Motorstromstärkengrenze	Drücken Sie die **[▲]/[▼]** Taste, um die aktuelle Motorgrenzenrate einzustellen

Absorptionskühler



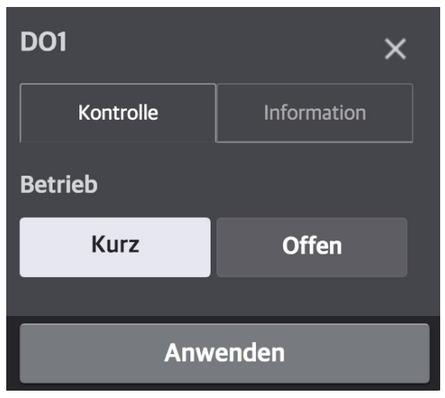
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb
Modus	Die Modussteuerung ist unmöglich. Die Steuerung der eingestellten Temperatur des überwachten Modus
Einstellen temperatur	Stellt die Lastwasseraustrittstemperatur für die Innenkühlung/Heizung ein Drücken Sie die **[▲]/[▼]** Taste, um die Temperatur des Kühlungsmodus und der Heizungsmodus einzustellen
Alarm	**[Löschen]** Taste: Löscht den Alarm während des Kältemaschine Alarms
Obergrenze des Steuerungsventils	Drücken Sie die **[▲]/[▼]** Taste, um die Obergrenze der Steuerungsventilrate einzustellen

DOKIT



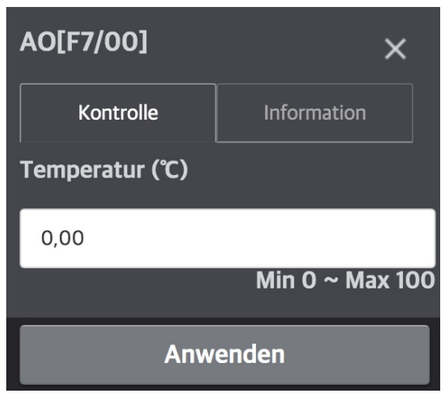
Kategorie	Inhalte
Betrieb	• **[AN]** Taste: AN den Gerätebetrieb • **[AUS]** Taste: AUS den Gerätebetrieb

DO



Kategorie	Inhalte
Betrieb	• **[Kurz]** Taste: Kurzsignalausgabe • **[Offen]** Taste: Öffnen-Signalausgabe

AO



Kategorie	Inhalte
Temperatur	Temperaturwert einstellen

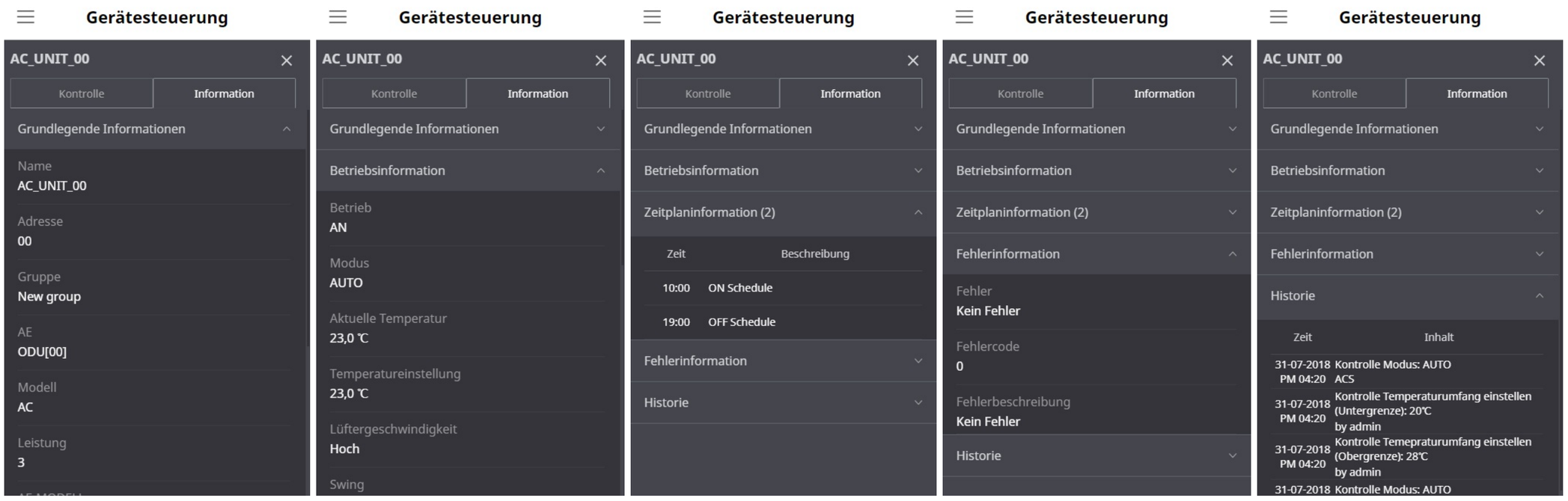
Hinweis

Das Einheitensymbol kann sich je nach der während der Registrierung des Geräts festgelegten Verwendung ändern.

Geräteinformationen

Wenn Sie die Gerätinformationstaste auf dem Gerätesteuerungsbildschirm anklicken, können Sie die Gerätinformation prüfen.

Sie können grundlegende Informationen des Geräts, wie z.B. Betriebsinformationen, Zeitplaninformationen, Fehlerinformationen und den heutigen Verlauf überprüfen.



Zeitplansteuerung

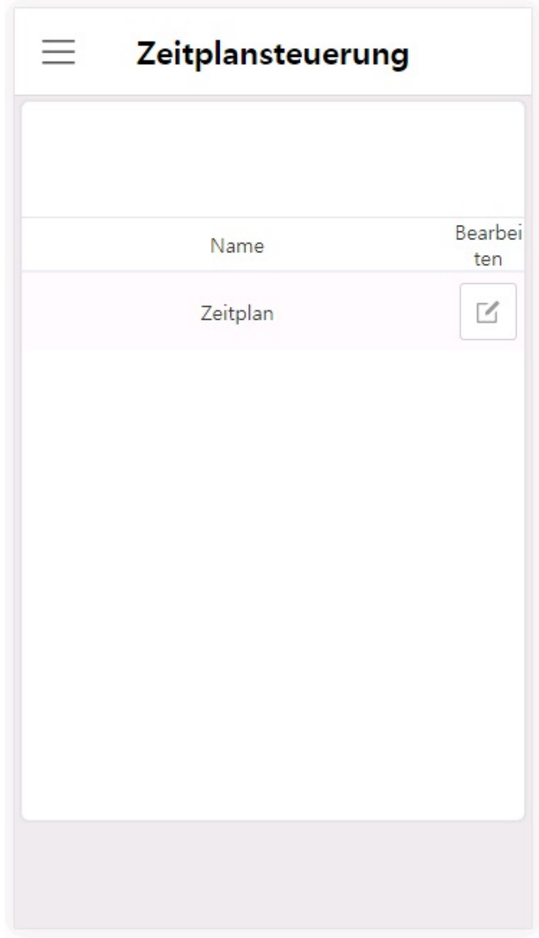
Ein Zeitplan ist eine Funktion, bei der das Gerät zu einem bestimmten Zeitpunkt einen reservierten Betrieb durchführt, indem der Gerätebetrieb im Voraus festgelegt wird. Wann immer diese Funktion verwendet wird, kann der Gerätebetrieb in der Zeiteinheit effizient verwaltet werden und der Energiespareffekt ist ausgezeichnet.

[Zeitplan]

- Zeitplan prüfen

Zeitplan prüfen

Sie können alle eingestellten Zeitpläne sehen.



Wenn Sie das Bearbeiten-Symbol anklicken, können Sie die detaillierten Inhalte des Zeitplans prüfen.



BACnet/Modbus/Lonworks-Einstellung

Anleitung zu BTL-Konfiguration

Damit die Geräte mit den Funktionen arbeitet, die durch BTL authentifiziert sind, müssen Sie BACnet auf Typ C stellen.

BACnet Typ A/B gibt es, um kompatibel mit bereits existierenden Produkten sein zu können. Wenn Sie BACnet auf Typ A/B stellen, benutzen die Geräte möglicherweise Funktionen, die nicht durch BTL authentifiziert sind, sodass Sie nicht standardgemäß arbeiten.

Um den Typ von BACnet festzulegen, gehen Sie zum Menüpunkt **[Verbrauch (PC)] > [BACnet/Modbus/Lonworks-Einstellung]**.

Betriebsart gemäß BACnet Typ

- Typ A: Erstellt mehrere Geräte, und die Objekte sind im Gerät bei jeder Anlage enthalten. Mehre Geräte reagieren, indem sie dieselbe MAC-Adresse als ihre physikalischen Adressen verwenden.

- Typ B: Erstellt mehrere Geräte, und die Objekte sind im Gerät jeder Anlage enthalten. Geräte reagieren auf Grundlage singulärer physikalischer Adressen.

- Typ C: Erstellt nur ein Gerät, das alle Objekte umfasst.

※ Vorsicht: Wenn Sie den Typ wechseln, ändert sich möglicherweise die Gerätenummer. Möglicherweise ist es dann notwendig, beim BMS zusätzliche technische Änderungen durchzuführen.

ACP 5 can be linked with the BMS (Building Management System) that supports the BACnet IP/Modbus TCP/Lonworks protocol.
The functions that can be controlled or monitored by the BMS vary depending on the protocol.

[BACnet]

- Commission
- Object List
- BIBBs
- PICS

[Modbus]

- Commission
- Function code
- Register List

[Lonworks]

- Commission
- Function Block List
- Netzwerk-Variables

BACnet Commission

Commissioning is the process of verifying the subsystems to achieve the owner's project requirements as intended by the building owner and as designed by the building architects and engineers.

After ACP 5 installation, you can check the operation status of the device by using the web function before connection with the BMS system.

Creating of the Points. This is NOT to be done by LG since it is directly related to the BMS side. The BMS engineer is to carry out the engineering of the Point, however LG is responsible for providing the method of how the Points are calculated.

Precautions

- To use BACnet feature, you must select **[Settings] > [BACnet/Modbus/Lonworks Setting] > [BACnet enable]** as **Set**.
- In case of installing 2 or more ACP 5, you must change **[Settings] > [BACnet/Modbus/Lonworks Setting] > [Device ID Setting]** so that the Device IDs are not duplicate among ACP 5. It is recommended that you keep a difference of 10 or more for different Device IDs.
- If Device Discover doesn't work well, change **[Settings] > [BACnet/Modbus/Lonworks Setting] > [BACnet Type Setting]**.
- It is recommended that you request ReadProperty/WriteProperty at an interval of 200 ms or more for each property.
- It is recommended that you request ReadPropertyMultiple/WritePropertyMultiple at an interval of 500 ms or more for each property.
- SubscribeCOV can be registered up to 1024.
- If ACP 5 and BMS are located on different networks, BBMD (BACnet/IP Broadcast Management Device) is needed.
- As ACP 5 does not support the BBMD function, a separate BBMD is required. You can register ACP 5 as a foreign device in BBMD using **[Settings] > [BACnet/Modbus/Lonworks Setting] > [Register as Foreign Device]** function.

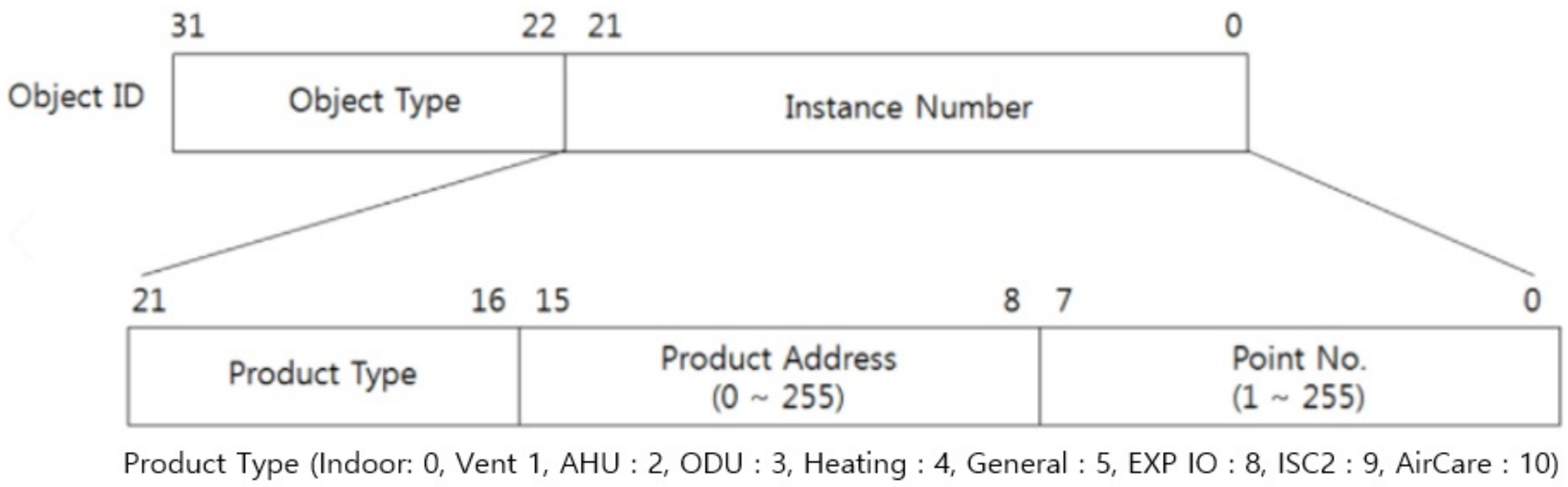
BACnet Object List

It describes the BACnet object list provided by ACP 5.

- Instance Number
- Indoor Unit Object List
- ERV Object List
- AHU Object List
- Outdoor Unit Object List
- Heating Object List
- General Object List
- EXP.I/O object list
- Scroll Chiller(Air Cooling) object list
- Air purifier object list

Definition of Instance Number

The instance number of each device is assigned as follows



Example of Instance Number

Description	Product Type	Product Address	Point	Instance Number
IDU Address 0x00, On/Off (Setting)	0	0	1	1
IDU Address 0x00, Operation Mode (Setting)	0	0	7	7
IDU Address 0x1B, On/Off (Setting)	0	27	1	6913
IDU Address 0x1B, Operation Mode (Setting)	0	27	7	6919
ERV Address 0x00, On/Off (Setting)	1	0	1	65537
ERV Address 0x00, Operation Mode (Setting)	1	0	7	65543
ERV Address 0x1B, On/Off (Setting)	1	27	1	72449
ERV Address 0x1B, Operation Mode (Setting)	1	27	7	72455
AHU Address 0x00, On/Off (Setting)	2	0	1	131073
AHU Address 0x00, Operation Mode (Setting)	2	0	7	131079
AHU Address 0x0F, On/Off (Setting)	2	15	1	134913
AHU Address 0x0F, Operation Mode (Setting)	2	15	7	134919
ODU Address 0x00, Compressor Operation	3	0	1	196609
ODU Address 0x00, Operation Mode	3	0	14	196622
ODU Address 0x0F, Compressor Operation	3	15	1	200449
ODU Address 0x0F, Operation Mode	3	15	14	200462
Heating Address 0x00, On/Off (Setting)	4	0	1	262145
Heating Address 0x00, Operation Mode (Setting)	4	0	5	262149
Heating Address 0x0F, On/Off (Setting)	4	15	1	265985
Heating Address 0x0F, Operation Mode (Setting)	4	15	5	265989
Scroll-Air-Inv-Gen2 Address 0x00, On/Off (Setting)	9	0	1	589825
Scroll-Air-Inv-Gen2 Address 0x00, Operation Mode (Setting)	9	0	39	589863
Scroll-Air-Inv-Gen2 Address 0x0F, On/Off (Setting)	9	15	1	595201
Scroll-Air-Inv-Gen2 Address 0x0F, Operation Mode (Setting)	9	15	39	595239
Air purifier Address 0x00, On/Off (Setting)	10	0	1	655361
Air purifier Address 0x00, Operation Mode (Setting)	10	0	5	655365
Air purifier Address 0x0F, On/Off (Setting)	10	15	1	660737
Air purifier Address 0x0F, Operation Mode (Setting)	10	15	5	660741
General Object, All Unit Run/Stop (Setting)	5	0	1	327681
General Object, All Unit Set Room Temperature (Setting)	5	0	2	327682

Indoor Unit Object List

One Indoor unit has the following list of points. Some points may not be supported depending on the product.

Point	Description	Object Name(_XXX : Address)	Object Type	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	On/Off (Setting)	StartStopCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
2	On/Off (Status)	StartStopStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
3	Lock (Setting)	LockCommand_XXX	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
4	Lock (Status)	LockStatus_XXX	BI	-	Permit (0)	Prohibit (1)	-	-	-	-	-
5	Filter Sign	FilterSign_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
6	Filter Sign reset	FilterSignReset_XXX	BV	-	-	Reset (1)	-	-	-	-	-
7	Operation Mode (Setting)	AirConModeCommand_XXX	MO	-	-	Cool (1)	Dry (2)	Fan (3)	Auto (4)	Heat (5)	-
8	Operation Mode (Status)	AirConModeStatus_XXX	MI	-	-	Cool (1)	Dry (2)	Fan (3)	Auto (4)	Heat (5)	-
9	Swing (Setting)	SwingCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
10	Swing (Status)	SwingStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
11	Fan Speed (Setting)	FanSpeedCommand_XXX	MO	-	-	Low (1)	Middle (2)	High (3)	Auto (4)	-	-
12	Fan Speed (Status)	FanSpeedStatus_XXX	MI	-	-	Low (1)	Middle (2)	High (3)	Auto (4)	-	-
13	Set Room Temperature	SetRoomTemp_XXX	AV	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
14	Room Temperature	RoomTemp_XXX	AI	℃(℉)							
15	Alarm	Alarm_XXX	BI	-	Normal (0)	Abnormal (1)	-	-	-	-	-
16	Error Code	MalfunctionCode_XXX	AI	-	Please refer to LG error code list.						
17	-	-	-	-	-						
18	-	-	-	-	-						
19	Set Temperature (Status)	SetTempStatus_XXX	AI	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
20	Accumulated Power Distribution (Status)	Accumulated power(100 Watt)_XXX	AI	100 Watt	Wattage values						
21	-	-	-	-	-						
22	-	-	-	-	-						
23	-	-	-	-	-						
24	-	-	-	-	-						
25	-	-	-	-	-						
26	-	-	-	-	-						
27	Set Upper Temperature (Setting)	TempRangeUpperLimitCommand_XXX	AV	℃(℉)	18 ℃ ~ 30 ℃ (64 ℉ ~ 86 ℉)						
28	Set Upper Tempaerature (Status)	TempRangeLowerLimitCommand_XXX	AV	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
29	Set Lower Temperature (Setting)	TempRangeUpperLimitStatus_XXX	AI	℃(℉)	18 ℃ ~ 30 ℃ (64 ℉ ~ 86 ℉)						
30	Set Lower Temperature (Status)	TempRangeLowerLimitStatus_XXX	AI	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
31	Mode Lock (Setting)	ModeLockCommand_XXX	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
32	Mode Lock (Status)	ModeLockStatus_XXX	BI	-	Permit (0)	Prohibit (1)	-	-	-	-	-
33	Fan Lock (Setting)	FanLockCommand_XXX	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
34	Fan Lock (Status)	FanLockStatus_XXX	BI	-	Permit (0)	Prohibit (1)	-	-	-	-	-
35	Occupancy (Setting)	OccupancyCommand_XXX	BO	-	Unoccupied (0)	Occupied (1)	-	-	-	-	-
36	Occupancy (Status)	OccupancyStatus_XXX	BI	-	Unoccupied (0)	Occupied (1)	-	-	-	-	-
37	2Set Cooling Set Temperature (Setting)	2SetCoolingTempCommand_XXX	AV	℃(℉)	10 ℃ ~ 37.5 ℃ (50 ℉ ~ 99 ℉)						
38	2Set Cooling Set Temperature (Status)	2SetCoolingTempStatus_XXX	AI	℃(℉)	10 ℃ ~ 37.5 ℃ (50 ℉ ~ 99 ℉)						
39	2Set Heating Set Temperature (Setting)	2SetHeatingTempCommand_XXX	AV	℃(℉)	4 ℃ ~ 32 ℃ (40 ℉ ~ 90 ℉)						
40	2Set Heating Set Temperature (Status)	2SetHeatingTempStatus_XXX	AI	℃(℉)	4 ℃ ~ 32 ℃ (40 ℉ ~ 90 ℉)						
41	2Set Cooling Upper Temperature (Setting)	2SetCoolingUpperLimitCommand_XXX	AV	℃(℉)	10 ℃ ~ 37.5 ℃ (50 ℉ ~ 99 ℉)						
42	2Set Cooling Upper Temperature (Status)	2SetCoolingUpperLimitStatus_XXX	AI	℃(℉)	10 ℃ ~ 37.5 ℃ (50 ℉ ~ 99 ℉)						
43	2Set Cooling Lower Temperature	2SetHeatingUpperLimitCommand_XXX	AV	℃(℉)	4 ℃ ~ 32 ℃ (40 ℉ ~ 90 ℉)						

	(Setting)										
44	2Set Cooling Lower Temperature (Status)	2SetHeatingUpperLimitStatus_XXX	AI	℃(℉)	4 ℃ ~ 32 ℃ (40 ℉ ~ 90 ℉)						
45	2Set Heating Upper Temperature (Setting)	2SetCoolingLowerLimitCommand_XXX	AV	℃(℉)	10 ℃ ~ 37.5 ℃ (50 ℉ ~ 99 ℉)						
46	2Set Heating Upper Temperature (Status)	2SetCoolingLowerLimitStatus_XXX	AI	℃(℉)	10 ℃ ~ 37.5 ℃ (50 ℉ ~ 99 ℉)						
47	2Set Heating Lower Temperature (Setting)	2SetHeatingLowerLimitCommand_XXX	AV	℃(℉)	4 ℃ ~ 32 ℃ (40 ℉ ~ 90 ℉)						
48	2Set Heating Lower Temperature (Status)	2SetHeatingLowerLimitStatus_XXX	AI	℃(℉)	4 ℃ ~ 32 ℃ (40 ℉ ~ 90 ℉)						
49	Thermo Status (Status)	ThermoStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
50	Accumulated Gas Distribution (Status)	AccumulatedGas(100 Watt)_XXX	AI	100 Liter	Gas values						
51	Dust Sensor Available (Status)	DustSensorAvail_XXX	BI	-	Disabled (0)	Enabled (1)	-	-	-	-	-
52	Air Cleaning Opereration (Setting)	AirCleaningOperCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
53	Air Cleaning Opereration (Status)	AirCleaningOperStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
54	PM10 (Status)	FineDustStatus_XXX	AI	$\mu g/m^3$							
55	PM2.5 (Status)	UltraFineDustStatus_XXX	AI	$\mu g/m^3$							
56	PM1.0 (Status)	SuperUltraFineDustStatus_XXX	AI	$\mu g/m^3$							
57	Humidity (Status)	HumidityStatus_XXX	AI	%							
58	Comfort Cooling Available (Status)	ComfortCoolingAvail_XXX	BI	-	Disabled (0)	Enabled (1)	-	-	-	-	-
59	Comfort Cooling Opereration (Setting)	ComfortCoolingOperCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
60	Comfort Cooling Opereration (Status)	ComfortCoolingOperStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
61	Comfort Cooling Step (Setting)	ComfortCoolingStepCommand_XXX	AV	-	1 step ~ 3 step						
62	Comfort Cooling Step (Status)	ComfortCoolingStepStatus_XXX	AI	-	1 step ~ 3 step						
63	Human Detection Available (Status)	HumanDetectionAvail_XXX	BI	-	Disabled (0)	Enabled (1)	-	-	-	-	-
64	Human Detection Opereration (Setting)	HumanDetectionOperCommand_XXX	MO	-	-	Stop (1)	OnOffSaving (2)	TempSaving (3)	-	-	-
65	Human Detection Opereration (Status)	HumanDetectionOperStatus_XXX	MI	-	-	Stop (1)	OnOffSaving (2)	TempSaving (3)	-	-	-
66	Human Detection Wind (Setting)	HumanDetectionWindCommand_XXX	MO	-	-	Stop (1)	Direct (2)	Indirect (3)	-	-	-
67	Human Detection Wind (Status)	HumanDetectionWindStatus_XXX	MI	-	-	Stop (1)	Direct (2)	Indirect (3)	-	-	-
68	Human Detection Time (Setting)	HumanDetectionTimeCommand_XXX	MO	-	-	5 min (1)	10 min (2)	15 min (3)	30 min (4)	60 min (5)	90 min (6)
69	Human Detection Time (Status)	HumanDetectionTimeStatus_XXX	MI	-	-	5 min (1)	10 min (2)	15 min (3)	30 min (4)	60 min (5)	90 min (6)
70	Hotel Check In (Setting)	HotelCheckinCommand_XXX	BO	-	Check_out (0)	Check_in (1)	-	-	-	-	-
71	Hotel Mode (Setting)	HotelModeCommand_XXX	MO	-	-	Comfort (1)	Pre_comfort (2)	Economy (3)	-	-	-

ERV Object List

One ERV has the following list of points. Some points may not be supported depending on the product.

Point	Description	Object Name(_XXX : Address)	Object Type	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	On/Off (Setting)	StartStopCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
2	On/Off (Status)	StartStopStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
3	Lock (Setting)	LockCommand_XXX	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
4	Lock (Status)	LockStatus_XXX	BI	-	Permit (0)	Prohibit (1)	-	-	-	-	-
5	Filter Sign	FilterSign_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
6	Filter Sign reset	FilterSignReset_XXX	BV	-	-	Reset (1)	-	-	-	-	-
7	Operation Mode (Setting)	AirConModeCommand_XXX	MO	-	-	Heat Exchange (1)	Auto (2)	Normal (3)	-	-	-
8	Operation Mode (Status)	AirConModeStatus_XXX	MI	-	-	Heat Exchange (1)	Auto (2)	Normal (3)	-	-	-
9	-	-	-	-	-						
10	-	-	-	-	-						
11	Fan Speed (Setting)	FanSpeedCommand_XXX	MO	-	-	Low (1)	High (2)	Super High (3)	Auto (4)	-	-
12	Fan Speed (Status)	FanSpeedStatus_XXX	MI	-	-	Low (1)	High (2)	Super High (3)	Auto (4)	-	-
13	Set Room Temperature	SetRoomTemp_XXX	AV	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
14	Room Temperature	RoomTemp_XXX	AI	℃(℉)							
15	Alarm	Alarm_XXX	BI	-	Normal (0)	Abnormal (1)	-	-	-	-	-
16	Error Code	MalfunctionCode_XXX	AI	-	Please refer to LG error code list.						
17	User Mode (Setting)	UserModeCommand_XXX	MO	-	-	Quick fresh (1)	Energy saving (2)	Clear (3)	-	-	-
18	User Mode (Status)	UserModeStatus_XXX	MI	-	-	Quick fresh (1)	Energy saving (2)	Clear (3)	-	-	-
19	Set Temperature (Status)	SetTempStatus_XXX	AI	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
20	Accumulated Power Distribution (Status)	Accumulated power(100 Watt)_XXX	AI	100 Watt	Wattage values						
21	AC Operation Mode (Setting)	UserModeAcCommand_XXX	MO	-	-	Cool (1)	Auto (2)	Heat (3)	-	-	-
22	AC Operation Mode (Status)	UserModeStatus_XXX	MI	-	-	Cool (1)	Auto (2)	Heat (3)	-	-	-
23	AC ON/OFF (Setting)	UserModeAcCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
24	AC ON/OFF (Status)	UserModeAcStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
25	AC Humidify (Setting)	HumidifierOperCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
26	AC Humidify (Status)	HumidifierOperStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
27	Partial Lock Available (Status)	PatialLockAvail_XXX	BI	-	Disabled (0)	Enabled (1)	-	-	-	-	-
28	Set Upper Temperature (Setting)	TempRangeUpperLimitCommand_XXX	AV	℃(℉)	18 ℃ ~ 30 ℃ (64 ℉ ~ 86 ℉)						
29	Set Upper Tempaerature (Status)	TempRangeLowerLimitCommand_XXX	AV	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
30	Set Lower Temperature (Setting)	TempRangeUpperLimitStatus_XXX	AI	℃(℉)	18 ℃ ~ 30 ℃ (64 ℉ ~ 86 ℉)						
31	Set Lower Temperature (Status)	TempRangeLowerLimitStatus_XXX	AI	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
32	Mode Lock (Setting)	ModeLockCommand_XXX	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
33	Mode Lock (Status)	ModeLockStatus_XXX	BI	-	Permit (0)	Prohibit (1)	-	-	-	-	-
34	Fan Lock (Setting)	FanLockCommand_XXX	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
35	Fan Lock (Status)	FanLockStatus_XXX	BI	-	Permit (0)	Prohibit (1)	-	-	-	-	-
36	NTFC Available (Status)	NtfcAvail_XXX	BI	-	Disabled (0)	Enabled (1)	-	-	-	-	-
37	NTFC Operation (Setting)	NtfcOperCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
38	NTFC Operation (Status)	NtfcOperStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
39	NTFC Lock (Setting)	NtfcLockCommand_XXX	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
40	NTFC Lock (Status)	NtfcLockStatus_XXX	BI	-	Permit (0)	Prohibit (1)	-	-	-	-	-
41	Co2 Value	Co2Value_XXX	AI	PPM							

AHU Object List

One AHU has the following list of points. Some points may not be supported depending on the product.

Point	Description	Object Name(_XXX : Address)	Object Type	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	On/Off (Setting)	StartStopCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
2	On/Off (Status)	StartStopStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
3	Lock (Setting)	LockCommand_XXX	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
4	Lock (Status)	LockStatus_XXX	BI	-	Permit (0)	Prohibit (1)	-	-	-	-	-
5	Filter Sign	FilterSign_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
6	-	-	-	-	-						
7	Operation Mode (Setting)	AirConModeCommand_XXX	MO	-	-	Cool (1)	Dry (2)	Fan (3)	Heat (4)	Energy saving (5)	-
8	Operation Mode (Status)	AirConModeStatus_XXX	MI	-	-	Cool (1)	Dry (2)	Fan (3)	Heat (4)	Energy saving (5)	-
9	-	-	-	-	-						
10	-	-	-	-	-						
11	Fan Speed (Setting)	FanSpeedCommand_XXX	MO	-	-	High (1)	Middle (2)	Low (3)	-	-	-
12	Fan Speed (Status)	FanSpeedStatus_XXX	MI	-	-	High (1)	Middle (2)	Low (3)	-	-	-
13	Set Room Temperature	SetRoomTemp_XXX	AV	℃(℉)	18 ℃ ~ 30 ℃ (64 ℉ ~ 86 ℉)						
14	Room Temperature	RoomTemp_XXX	AI	℃(℉)							
15	Alarm	Alarm_XXX	BI	-	Normal (0)	Abnormal (1)	-	-	-	-	-
16	Error Code	MalfunctionCode_XXX	AI	-	Please refer to LG error code list.						
17	-	-	-	-	-						
18	-	-	-	-	-						
19	Set Temperature (Status)	SetTempStatus_XXX	AI	℃(℉)	18 ℃ ~ 30 ℃ (64 ℉ ~ 86 ℉)						
20	FireAlarm (Setting)	FireAlarmCommand_XXX	BO	-	Off (0)	On (1)	-	-	-	-	-
21	FireAlarm (Status)	FireAlarmStatus_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
22	Humidity (Setting)	SetHumidityCommand_XXX	AV	%	40 % ~ 60 %						
23	Humidity (Status)	SetHumidityStatus_XXX	AI	%	40 % ~ 60 %						
24	Humidify ON/OFF (Setting)	HumidifyCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
25	Humidify ON/OFF (Status)	HumidifyStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
26	Auto Ventilation ON/OFF (Setting)	AutoVentilCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
27	Auto Ventilation ON/OFF (Status)	AutoVentilStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
28	Supply Unit Temperature (Status)	SupplyTempStatus_XXX	AI	℃(℉)							
29	Outdoor Unit Temperature (Status)	OutdoorTempStatus_XXX	AI	℃(℉)							
30	Mix Unit Temperature (Status)	MixTempStatus_XXX	AI	℃(℉)							
31	Supply Unit Humidity (Status)	SupplyHumidifyStatus_XXX	AI	%							
32	Outdoor Unit Humidity (Status)	OutdoorHumidifyStatus_XXX	AI	%							
33	Ventilation Unit Humidity (Status)	VentilHumidifyStatus_XXX	AI	%							
34	CO2 Value (Status)	CO_2ValueStatus_XXX	AI	-	0~255 (Real Value = Value*10, Example : In case Value is 20, CO2 is 20*10=200ppm)						
35	Humidity Unit ON/OFF (Status)	HumidifyUnitStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
36	Heating Unit ON/OFF (Status)	HeaterUnitStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
37	Ventilator FAN ON/OFF (Status)	VentilFanStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
38	Supply Unit FAN ON/OFF (Status)	SupplyFanStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
39	Current OA Damper (Status)	CurrOADamperStatus_XXX	AI	º	0 º ~ 90 º						
40	Current EA Damper (Status)	CurrEADamperStatus_XXX	AI	º	0 º ~ 90 º						
41	Current Mix Damper (Status)	CurrMixDamperStatus_XXX	AI	º	0 º ~ 90 º						
42	Cooling OA Damper (Setting)	OADamperCoolCommand_XXX	AV	º	0 º ~ 90 º						
43	Cooling OA Damper (Status))	OADamperCoolStatus_XXX	AI	º	0 º ~ 90 º						
44	Cooling EA Damper (Setting)	EADamperCoolCommand_XXX	AV	º	0 º ~ 90 º						
45	Cooling EA Damper (Status))	EADamperCoolStatus_XXX	AI	º	0 º ~ 90 º						
46	Cooling Mix Damper (Setting)	MixDamperCoolCommand_XXX	AV	º	0 º ~ 90 º						
47	Cooling Mix Damper (Status))	MixDamperCoolStatus_XXX	AI	º	0 º ~ 90 º						
48	Heating OA Damper (Setting)	OADamperHeatCommand_XXX	AV	º	0 º ~ 90 º						
49	Heating OA Damper (Status))	OADamperHeatStatus_XXX	AI	º	0 º ~ 90 º						
50	Heating EA Damper (Setting)	EADamperHeatCommand_XXX	AV	º	0 º ~ 90 º						
51	Heating EA Damper (Status))	EADamperHeatStatus_XXX	AI	º	0 º ~ 90 º						
52	Heating Mix Damper (Setting)	MixDamperHeatCommand_XXX	AV	º	0 º ~ 90 º						
53	Heating Mix Damper (Status))	MixDamperHeatStatus_XXX	AI	º	0 º ~ 90 º						
54	FAN OA Damper (Setting)	OADamperFanCommand_XXX	AV	º	0 º ~ 90 º						
55	FAN OA Damper (Status))	OADamperFanStatus_XXX	AI	º	0 º ~ 90 º						

56	FAN EA Damper (Setting)	EADamperFanCommand_XXX	AV	º	0 º ~ 90 º
57	FAN EA Damper (Status))	EADamperFanStatus_XXX	AI	º	0 º ~ 90 º
58	FAN Mix Damper (Setting)	MixDamperFanCommand_XXX	AV	º	0 º ~ 90 º
59	FAN Mix Damper (Status))	MixDamperFanStatus_XXX	AI	º	0 º ~ 90 º

Outdoor unit Object List

One outdoor unit has the following list of points. Some points may not be supported depending on the product.

Point	Description	Object Name(_XXX : Address)	Object Type	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	Compressor Operation	CompressorOperation_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
2	Refrigerant Type	RefrigerantType_XXX	MI	-	-	R407C (1)	R22 (2)	R410A (3)	-	-	-
3	Fan1 Frequency	Fan1Frequency_XXX	AI	rpm							
4	High Pressure	HighPressure_XXX	AI	kPa							
5	Low Pressure	LowPressure_XXX	AI	kPa							
6	Compressor Suction Temp	CompressorSunctionTemp_XXX	AI	℃(℉)							
7	Liquid Pipe Temp	LiquidPipeTemp_XXX	AI	℃(℉)							
8	Heat Exchange Temp	HeatExchangeTemp_XXX	AI	℃(℉)							
9	Outdoor Unit EEV	OutdoorUnitEEV_XXX	AI	-							
10	Over-cooler EEV	Over-coolerEEV_XXX	AI	-							
11	Hot Gas Valve	HotGasValue_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
12	Inverter Discharge Temp	InverterDischargeTemp_XXX	AI	℃(℉)							
13	Air Temp	AirTemp_XXX	AI	℃(℉)							
14	Operation Mode	OperationMode_XXX	MI	-	-	Stop (1)	Cool (2)	Heat (3)	-	-	-
15	Error Code	ErrorCode_XXX	AI	0~255							
16	Inverter1 Compressor Frequency	Inverter1CompressorFrequency_XXX	AI	rpm							
17	Inverter2 Compressor Frequency	Inverter2CompressorFrequency_XXX	AI	rpm							
18	Fan2 Frequency	Fan2Frequency_XXX	AI	rpm							
19	Inverter2 Discharge Temp	Inverter2DischargeTemp_XXX	AI	℃(℉)							
20	Std1 Discharge Temp	Std1DischargeTemp_XXX	AI	℃(℉)							
21	Std2 Discharge Temp	Std2DischargeTemp_XXX	AI	℃(℉)							
22	Upper Hex Temp	UpperHexTemp_XXX	AI	℃(℉)							
23	Lower Hex Temp	LowerHexTemp_XXX	AI	℃(℉)							
24	Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI	℃(℉)							
25	Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI	℃(℉)							
26	Sub EEV Pulse	SubEevPulse_XXX	AI	-							
27	Oil Equalizing EEV	OilEqualizingEEV_XXX	AI	-							
28	Vapor Injection EEV1	ViEev1_XXX	AI	-							
29	Vapor Injection EEV2	ViEev2_XXX	AI	-							
30	Inverter1 Heater	Inverter1Heater_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
31	Inverter2 Heater	Inverter2Heater_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
32	Inverter1 Oil Sensor	Inverter1OilSensor_XXX	BI	-	Not Detect Oil (0)	Detect Oil (1)	-	-	-	-	-
33	Inverter2 Oil Sensor	Inverter2OilSensor_XXX	BI	-	Not Detect Oil (0)	Detect Oil (1)	-	-	-	-	-
34	Inverter1 Backup	Inverter1Backup_XXX	BI	-	Not Used (0)	Used (1)	-	-	-	-	-
35	Inverter2 Backup	Inverter2Backup_XXX	BI	-	Not Used (0)	Used (1)	-	-	-	-	-
36	DDC	DDC_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
37	DEFROST	DEFROST_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
38-64	Additional Point for Master Outdoor Unit										
65	(Slave1) Compressor Operation	CompressorOperation_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
66	(Slave1) Refrigerant Type	RefrigerantType_XXX	MI	-	-	R407C (1)	R22 (2)	R410A (3)	-	-	-
67	(Slave1) Fan1 Frequency	Fan1Frequency_XXX	AI	rpm							
68	(Slave1) High Pressure	HighPressure_XXX	AI	kPa							
69	(Slave1) Low Pressure	LowPressure_XXX	AI	kPa							
70	(Slave1) Compressor Suction Temp	CompressorSunctionTemp_XXX	AI	℃(℉)							
71	(Slave1) Liquid Pipe Temp	LiquidPipeTemp_XXX	AI	℃(℉)							
72	(Slave1) Heat Exchange Temp	HeatExchangeTemp_XXX	AI	℃(℉)							
73	(Slave1) Outdoor Unit EEV	OutdoorUnitEEV_XXX	AI	-							
74	(Slave1) Over-cooler EEV	Over-coolerEEV_XXX	AI	-							
75	(Slave1) Hot Gas Valve	HotGasValue_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
76	(Slave1) Inverter Discharge Temp	InverterDischargeTemp_XXX	AI	℃(℉)							
77	(Slave1) Air Temp	AirTemp_XXX	AI	℃(℉)							
78	(Slave1) Operation Mode	OperationMode_XXX	MI	-	-	Stop (1)	Cool	Heat (3)	-	-	-

							(2)				
79	(Slave1) Error Code	ErrorCode_XXX	AI	0~255							
80	(Slave1) Inverter1 Compressor Frequency	Inverter1CompressorFrequency_XXX	AI	rpm							
81	(Slave1) Inverter2 Compressor Frequency	Inverter2CompressorFrequency_XXX	AI	rpm							
82	(Slave1) Fan2 Frequency	Fan2Frequency_XXX	AI	rpm							
83	(Slave1) Inverter2 Discharge Temp	Inverter2DischargeTemp_XXX	AI	℃(℉)							
84	(Slave1) Std1 Discharge Temp	Std1DischargeTemp_XXX	AI	℃(℉)							
85	(Slave1) Std2 Discharge Temp	Std2DischargeTemp_XXX	AI	℃(℉)							
86	(Slave1) Upper Hex Temp	UpperHexTemp_XXX	AI	℃(℉)							
87	(Slave1) Lower Hex Temp	LowerHexTemp_XXX	AI	℃(℉)							
88	(Slave1) Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI	℃(℉)							
89	(Slave1) Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI	℃(℉)							
90	(Slave1) Sub EEV Pulse	SubEevPulse_XXX	AI	-							
91	(Slave1) Oil Equalizing EEV	OilEqualizingEEV_XXX	AI	-							
92	(Slave1) Vapor Injection EEV1	ViEev1_XXX	AI	-							
93	(Slave1) Vapor Injection EEV2	ViEev2_XXX	AI	-							
94	(Slave1) Inverter1 Heater	Inverter1Heater_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
95	(Slave1) Inverter2 Heater	Inverter2Heater_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
96	(Slave1) Inverter1 Oil Sensor	Inverter1OilSensor_XXX	BI	-	Not Detect Oil (0)	Detect Oil (1)	-	-	-	-	-
97	(Slave1) Inverter2 Oil Sensor	Inverter2OilSensor_XXX	BI	-	Not Detect Oil (0)	Detect Oil (1)	-	-	-	-	-
98	(Slave1) Inverter1 Backup	Inverter1Backup_XXX	BI	-	Not Used (0)	Used (1)	-	-	-	-	-
99	(Slave1) Inverter2 Backup	Inverter2Backup_XXX	BI	-	Not Used (0)	Used (1)	-	-	-	-	-
100	(Slave1) DDC	DDC_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
101	(Slave1) DEFROST	DEFROST_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
102-128	Additional Point for Slave1 Outdoor Unit										
129	(Slave2) Compressor Operation	CompressorOperation_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
130	(Slave2) Refrigerant Type	RefrigerantType_XXX	MI	-	-	R407C (1)	R22 (2)	R410A (3)	-	-	-
131	(Slave2) Fan1 Frequency	Fan1Frequency_XXX	AI	rpm							
132	(Slave2) High Pressure	HighPressure_XXX	AI	kPa							
133	(Slave2) Low Pressure	LowPressure_XXX	AI	kPa							
134	(Slave2) Compressor Suction Temp	CompressorSunctionTemp_XXX	AI	℃(℉)							
135	(Slave2) Liquid Pipe Temp	LiquidPipeTemp_XXX	AI	℃(℉)							
136	(Slave2) Heat Exchange Temp	HeatExchangeTemp_XXX	AI	℃(℉)							
137	(Slave2) Outdoor Unit EEV	OutdoorUnitEEV_XXX	AI	-							
138	(Slave2) Over-cooler EEV	Over-coolerEEV_XXX	AI	-							
139	(Slave2) Hot Gas Valve	HotGasValue_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
140	(Slave2) Inverter Discharge Temp	InverterDischargeTemp_XXX	AI	℃(℉)							
141	(Slave2) Air Temp	AirTemp_XXX	AI	℃(℉)							
142	(Slave2) Operation Mode	OperationMode_XXX	MI	-	-	Stop (1)	Cool (2)	Heat (3)	-	-	-
143	(Slave2) Error Code	ErrorCode_XXX	AI	0~255							
144	(Slave2) Inverter1 Compressor Frequency	Inverter1CompressorFrequency_XXX	AI	rpm							
145	(Slave2) Inverter2 Compressor Frequency	Inverter2CompressorFrequency_XXX	AI	rpm							
146	(Slave2) Fan2 Frequency	Fan2Frequency_XXX	AI	rpm							
147	(Slave2) Inverter2 Discharge Temp	Inverter2DischargeTemp_XXX	AI	℃(℉)							
148	(Slave2) Std1 Discharge Temp	Std1DischargeTemp_XXX	AI	℃(℉)							
149	(Slave2) Std2 Discharge Temp	Std2DischargeTemp_XXX	AI	℃(℉)							
150	(Slave2) Upper Hex Temp	UpperHexTemp_XXX	AI	℃(℉)							
151	(Slave2) Lower Hex Temp	LowerHexTemp_XXX	AI	℃(℉)							
152	(Slave2) Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI	℃(℉)							
153	(Slave2) Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI	℃(℉)							
154	(Slave2) Sub EEV Pulse	SubEevPulse_XXX	AI	-							
155	(Slave2) Oil Equalizing EEV	OilEqualizingEEV_XXX	AI	-							
156	(Slave2) Vapor Injection EEV1	ViEev1_XXX	AI	-							
157	(Slave2) Vapor Injection EEV2	ViEev2_XXX	AI	-							
158	(Slave2) Inverter1 Heater	Inverter1Heater_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
159	(Slave2) Inverter2 Heater	Inverter2Heater_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
160	(Slave2) Inverter1 Oil Sensor	Inverter1OilSensor_XXX	BI	-	Not Detect Oil (0)	Detect Oil (1)	-	-	-	-	-

161	(Slave2) Inverter2 Oil Sensor	Inverter2OilSensor_XXX	BI	-	Not Detect Oil (0)	Detect Oil (1)	-	-	-	-	-
162	(Slave2) Inverter1 Backup	Inverter1Backup_XXX	BI	-	Not Used (0)	Used (1)	-	-	-	-	-
163	(Slave2) Inverter2 Backup	Inverter2Backup_XXX	BI	-	Not Used (0)	Used (1)	-	-	-	-	-
164	(Slave2) DDC	DDC_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
165	(Slave2) DEFROST	DEFROST_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
166-192	Additional Point for Slave2 Outdoor Unit										
193	(Slave3) Compressor Operation	CompressorOperation_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
194	(Slave3) Refrigerant Type	RefrigerantType_XXX	MI	-	-	R407C (1)	R22 (2)	R410A (3)	-	-	-
195	(Slave3) Fan1 Frequency	Fan1Frequency_XXX	AI	rpm							
196	(Slave3) High Pressure	HighPressure_XXX	AI	kPa							
197	(Slave3) Low Pressure	LowPressure_XXX	AI	kPa							
198	(Slave3) Compressor Suction Temp	CompressorSunctionTemp_XXX	AI	℃(℉)							
199	(Slave3) Liquid Pipe Temp	LiquidPipeTemp_XXX	AI	℃(℉)							
200	(Slave3) Heat Exchange Temp	HeatExchangeTemp_XXX	AI	℃(℉)							
201	(Slave3) Outdoor Unit EEV	OutdoorUnitEEV_XXX	AI	-							
202	(Slave3) Over-cooler EEV	Over-coolerEEV_XXX	AI	-							
203	(Slave3) Hot Gas Valve	HotGasValue_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
204	(Slave3) Inverter Discharge Temp	InverterDischargeTemp_XXX	AI	℃(℉)							
205	(Slave3) Air Temp	AirTemp_XXX	AI	℃(℉)							
206	(Slave3) Operation Mode	OperationMode_XXX	MI	-	-	Stop (1)	Cool (2)	Heat (3)	-	-	-
207	(Slave3) Error Code	ErrorCode_XXX	AI	0~255							
208	(Slave3) Inverter1 Compressor Frequency	Inverter1CompressorFrequency_XXX	AI	rpm							
209	(Slave3) Inverter2 Compressor Frequency	Inverter2CompressorFrequency_XXX	AI	rpm							
210	(Slave3) Fan2 Frequency	Fan2Frequency_XXX	AI	rpm							
211	(Slave3) Inverter2 Discharge Temp	Inverter2DischargeTemp_XXX	AI	℃(℉)							
212	(Slave3) Std1 Discharge Temp	Std1DischargeTemp_XXX	AI	℃(℉)							
213	(Slave3) Std2 Discharge Temp	Std2DischargeTemp_XXX	AI	℃(℉)							
214	(Slave3) Upper Hex Temp	UpperHexTemp_XXX	AI	℃(℉)							
215	(Slave3) Lower Hex Temp	LowerHexTemp_XXX	AI	℃(℉)							
216	(Slave3) Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI	℃(℉)							
217	(Slave3) Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI	℃(℉)							
218	(Slave3) Sub EEV Pulse	SubEevPulse_XXX	AI	-							
219	(Slave3) Oil Equalizing EEV	OilEqualizingEEV_XXX	AI	-							
220	(Slave3) Vapor Injection EEV1	ViEev1_XXX	AI	-							
221	(Slave3) Vapor Injection EEV2	ViEev2_XXX	AI	-							
222	(Slave3) Inverter1 Heater	Inverter1Heater_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
223	(Slave3) Inverter2 Heater	Inverter2Heater_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
224	(Slave3) Inverter1 Oil Sensor	Inverter1OilSensor_XXX	BI	-	Not Detect Oil (0)	Detect Oil (1)	-	-	-	-	-
225	(Slave3) Inverter2 Oil Sensor	Inverter2OilSensor_XXX	BI	-	Not Detect Oil (0)	Detect Oil (1)	-	-	-	-	-
226	(Slave3) Inverter1 Backup	Inverter1Backup_XXX	BI	-	Not Used (0)	Used (1)	-	-	-	-	-
227	(Slave3) Inverter2 Backup	Inverter2Backup_XXX	BI	-	Not Used (0)	Used (1)	-	-	-	-	-
228	(Slave3) DDC	DDC_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
229	(Slave3) DEFROST	DEFROST_XXX	BI	-	Off (0)	On (1)	-	-	-	-	-
230-256	Additional Point for Slave3 Outdoor Unit										

Heating Object List

One Heating has the following list of points. Some points may not be supported depending on the product.

Point	Description	Object Name(_XXX : Address)	Object Type	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	On/Off (Setting)	StartStopCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
2	On/Off (Status)	StartStopStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
3	Lock (Setting)	LockCommand_XXX	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
4	Lock (Status)	LockStatus_XXX	BI	-	Permit (0)	Prohibit (1)	-	-	-	-	-
5	Operation Mode (Setting)	AirConModeCommand_XXX	MO	-	-	Cool (1)	Heat (2)	Auto (3)	-	-	-
6	Operation Mode (Status)	AirConModeStatus_XXX	MI	-	-	Cool (1)	Heat (2)	Auto (3)	-	-	-
7	Set Room Temperature (Setting)	SetRoomTempCommand_XXX	AV	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
8	Set Room Temperature (Status)	SetRoomTempStatus_XXX	AI	℃(℉)	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
9	Set Hot Water Temperature (Setting)	SetHotWaterTempCommand_XXX	AV	℃(℉)	30 ℃ ~ 80 ℃ (86 ℉ ~ 176 ℉)						
10	Set Hot Water Temperature (Status)	SetHotWaterTempStatus_XXX	AI	℃(℉)	30 ℃ ~ 80 ℃ (86 ℉ ~ 176 ℉)						
11	Set PipeOut Water Temperature (Setting)	SetPipeOutWaterTempCommand_XXX	AV	℃(℉)	6 ℃ ~ 80 ℃ (42 ℉ ~ 176 ℉)						
12	Set PipeOut Water Temperature (Status)	SetPipeOutWaterTempStatus_XXX	AI	℃(℉)	6 ℃ ~ 80 ℃ (42 ℉ ~ 176 ℉)						
13	Setting Temperature Reference (Air/Water)	AirWaterFlag_XXX	BI	-	Air (0)	Water (1)	-	-	-	-	-
14	Hot Water Only Mode	HotWaterOnlyFlag_XXX	BI	-	Normal (0)	Hot Water Only (1)	-	-	-	-	-
15	Room Temperature	RoomTemp_XXX	AI	℃(℉)							
16	Alarm	Alarm_XXX	BI	-	Normal (0)	Abnormal (1)	-	-	-	-	-
17	Error Code	MalfunctionCode_XXX	AI	-	Please refer to LG error code list.						
18	HotWater On/Off (Setting)	HotWaterCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
19	HotWater On/Off (Status)	HotWaterStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
20	Pipe Inlet Temperature Status	PipeInTempStatus_XXX	AI	℃(℉)							
21	Water Tank Temperature Status	TankTempStatus_XXX	AI	℃(℉)							
22	Solar Temperature Status	SolarTempStatus_XXX	AI	℃(℉)							
23	Pipe Outlet Temperature tatus	PipeOutTempStatus_XXX	AI	℃(℉)							
24	Accumulated Power Distribution (Status)	Accumulated power(100 Watt)_XXX	AI	100 Watt	Wattage values						

General Object List

This is the list of BACnet objects provided for the general information. Some points may not be supported depending on the product.

Point	Description	Object Name(_XXX : Address)	Object Type	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	All Unit Run/Stop (Setting)	AllStartStopCommand	BO	-	Stop (0)	Start (1)	-	-	-	-	-
2	All Unit Set Room Temperature (Setting)	AllSetRoomTempCommand	AV	℃(℉)	18 ℃ ~ 30 ℃ (64 ℉ ~ 86 ℉)						
3	All Unit Temperature Lock (Setting)	AllTempLockCommand	BO	-	Permit (0)	Prohibit (1)	-	-	-	-	-
4	Total Accumulated Power (Status)	TotalAccumulatedPower	AI	100 Watt	Wattage values						
5	Peak Control Operation (Setting)	PeakStartStopCommand	BO	-	Stop (0)	Start (1)	-	-	-	-	-
6	Peak Control Operation (Status)	PeakStartStopStatus	BI	-	Stop (0)	Start (1)	-	-	-	-	-
7	Peak Shift Time(Setting)	PeakShiftTimeCommand	AV	min	5 min ~ 15 min						
8	Peak Shift Time(Status)	PeakShiftTimeStatus	AI	min	5 min ~ 15 min						
9	Peak Target Ratio(Setting)	PeakTargetCommand	AV	%	0 % ~ 100 %						
10	Peak Target Ratio(Status)	PeakTargetStatus	AI	%	0 % ~ 100 %						
11	Peak Current Running Ratio(Status)	PeakCurrentStatus	AI	%	0 % ~ 100 %						
12	Remote Shutdown(Setting)	RemoteShutDownCommand	BO	-	Normal (0)	Shutdown (1)	-	-	-	-	-
13	Temperature Unit Setting (Setting)	TempUnitCommand	BO	-	℃ (0)	℉ (1)	-	-	-	-	-
14	Temperature Unit Setting (Status)	TempUnitStatus	BI	-	℃ (0)	℉ (1)	-	-	-	-	-

Scroll-Air-Inv-Gen2 object list

Scroll-Air-Inv-Gen2 has a point list as shown below. Some points may not be supported depending on the product.

Point	Description	Object Name(_XXX : Address)	Object Type	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	On/Off (Setting)	Operation_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-
2	Chilled Water Flow Switch	ChilledWaterFlowSwitch_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
3	Chilled Water Pump Output	ChilledWaterPumpOutput_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
4	Chilled Water Pump Output	ChilledWaterPumpInterlock_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-
5	Main PCB Version	MainPCB_Version_XXX	AI	-							
6	Total Current Consumption	CurrentConsumption_XXX	AI	-							
7	Outside Air Temp	OutsideAirTemp_XXX	AI	℃(℉)							
8	Chilled Water Leaving Temp	ChilledWaterLeavingTemp_XXX	AI	℃(℉)							
9	Chilled Water Entering Temp	ChilledWaterEnteringTemp_XXX	AI	℃(℉)							
10	Error Cycle	ErrorCycle_XXX	AI	-							
11	Error Code	ErrorCode_XXX	AI	-							
12	Left To Start Time	LeftToStartTime_XXX	AI	sec							
13	Total Operation Time(high)	TotalOperationTime(high)_XXX	AI	min							
14	Total Operation Time(low)	TotalOperationTime(low)_XXX	AI	min							
15	Cycle1_1 Water Leaving Temp	Cycle1_1WaterLeavingTemp_XXX	AI	℃(℉)							
16	Cycle1_2 Water Leaving Temp	Cycle1_2WaterLeavingTemp_XXX	AI	℃(℉)							
17	Cycle1_1 Inverter Comp Freq	Cycle1_1InvCompFreq_XXX	AI	Hz							
18	Cycle1_2 Inverter Comp Freq	Cycle1_2InvCompFreq_XXX	AI	Hz							
19	Cycle1_1 HighPressure	Cycle1_1HighPressure_XXX	AI	kPa							
20	Cycle1_2 HighPressure	Cycle1_2HighPressure_XXX	AI	kPa							
21	Cycle1_1 LowPressure	Cycle1_1LowPressure_XXX	AI	kPa							
22	Cycle1_2 LowPressure	Cycle1_2LowPressure_XXX	AI	kPa							
23	Cycle2_1 Water Leaving Temp	Cycle2_1WaterLeavingTemp_XXX	AI	℃(℉)							
24	Cycle2_2 Water Leaving Temp	Cycle2_2WaterLeavingTemp_XXX	AI	℃(℉)							
25	Cycle2_1 Inverter Comp Freq	Cycle2_1InvCompFreq_XXX	AI	Hz							
26	Cycle2_2 Inverter Comp Freq	Cycle2_2InvCompFreq_XXX	AI	Hz							
27	Cycle2_1 HighPressure	Cycle2_1HighPressure_XXX	AI	kPa							
28	Cycle2_2 HighPressure	Cycle2_2HighPressure_XXX	AI	kPa							
29	Cycle2_1 LowPressure	Cycle2_1LowPressure_XXX	AI	kPa							
30	Cycle2_2 LowPressure	Cycle2_2LowPressure_XXX	AI	kPa							
31	Cycle3_1 Water Leaving Temp	Cycle3_1WaterLeavingTemp_XXX	AI	℃(℉)							
32	Cycle3_2 Water Leaving Temp	Cycle3_2WaterLeavingTemp_XXX	AI	℃(℉)							
33	Cycle3_1 Inverter Comp Freq	Cycle3_1InvCompFreq_XXX	AI	Hz							
34	Cycle3_1 Inverter Comp Freq	Cycle3_2InvCompFreq_XXX	AI	Hz							
35	Cycle3_1 HighPressure	Cycle3_1HighPressure_XXX	AI	kPa							
36	Cycle3_2 HighPressure	Cycle3_2HighPressure_XXX	AI	kPa							
37	Cycle3_1 LowPressure	Cycle3_1LowPressure_XXX	AI	kPa							
38	Cycle3_2 LowPressure	Cycle3_2LowPressure_XXX	AI	kPa							
39	Mode(Setting)	ModeCommand_XXX	MO	-	-	Cool	-	-	-	Heat	-
40	Mode(Status)	ModeStatus_XXX	MI	-	-	Cool	-	-	-	Heat	-
41	Set Cool Water Temp	SetCoolWaterTemp_XXX	AV	℃(℉)							
42	Set Hot Water Temp	SetHotWaterTemp_XXX	AV	℃(℉)							

BIBBs

BACnet Interoperability Building Blocks

Alarm and Event Management, Scheduling, Trending and Network Security BIBBs are not supported.

Data Sharing BIBBs

(□:Not supported, ■: Supported)

BIBB Type		Supported	Service	Initiate	Execute
DS-RP-A	Data Sharing-ReadProperty-A	□	ReadProperty	X	
DS-RP-B	Data Sharing-ReadProperty-B	■	ReadProperty		X
DS-RPM-A	Data Sharing-ReadPropertyMultiple-A	□	ReadPropertyMultiple	X	
DS-RPM-B	Data Sharing-ReadPropertyMultiple-B	■	ReadPropertyMultiple		X
DS-RPC-A	Data Sharing-ReadPropertyConditional-A	□	ReadPropertyConditional	X	
DS-RPC-B	Data Sharing-ReadPropertyConditional-B	□	ReadPropertyConditional		X
DS-WP-A	Data Sharing-WriteProperty-A	□	WriteProperty	X	
DS-WP-B	Data Sharing-WriteProperty-B	■	WriteProperty		X
DS-WPM-A	Data Sharing-WritePropertyMultiple-A	□	WritePropertyMultiple	X	
DS-WPM-B	Data Sharing-WritePropertyMultiple-B	■	WritePropertyMultiple		X
DS-COV-A	Data Sharing-Change Of Value-A	□	SubscribeCOV	X	
			ConfirmedCOVNotification		X
			UnconfirmedCOVNotification		X
DS-COV-B	Data Sharing-Change Of Value-B	■	SubscribeCOV		X
			ConfirmedCOVNotification	X	
			UnconfirmedCOVNotification	X	
DS-COVP-A	Data Sharing-Change Of Value Property-A	□	SubscribeCOVProperty	X	
			ConfirmedCOVNotification		X
			UnconfirmedCOVNotification		X
DS-COVP-B	Data Sharing-Change Of Value Property-B	□	SubscribeCOVProperty		X
			ConfirmedCOVNotification	X	
			UnconfirmedCOVNotification	X	
DS-COVU-A	Data Sharing-Change Of Value Unsubscribed-A	□	UnconfirmedCOVNotification		X
DS-COVU-B	Data Sharing-Change Of Value Unsubscribed-B	□	UnconfirmedCOVNotification	X	

Device and Network Management BIBBs

(□:Not supported, ■: Supported)

BIBB Type		Supported	Service	Initiate	Execute
DM-DDB-A	Device Management-Dynamic Device Binding-A	□	Who-Is	X	
			I-Am		X
DM-DDB-B	Device Management-Dynamic Device Binding-B	■	Who-Is		X
			I-Am	X	
DM-DOB-A	Device Management-Dynamic Object Binding-A	□	Who-Has	X	
			I-Have		X
DM-DOB-B	Device Management-Dynamic Object Binding-B	■	Who-Has		X
			I-Have	X	
DM-DCC-A	Device Management-DeviceCommunicationControl-A	□	DeviceCommunicationControl	X	
DM-DCC-B	Device Management-DeviceCommunicationControl-B	■	DeviceCommunicationControl		X
DM-TS-A	Device Management-TimeSynchronization-A	□	TimeSynchronization	X	
DM-TS-B	Device Management-TimeSynchronization-B	■	TimeSynchronization		X

PICS

BACnet Protocol Implementation Conformance Statement

Vendor Name

LG Electronics Inc.

Product Name

ACP 5

Product Description

This gateway converts between BACnet IP and RS-485 LGAP (LG Aircon protocol) allowing third party control and monitoring of the LG A/C system.

It has a built in web server that does not require any additional software.

BACnet Standardized Device Profile (Annex L)

BACnet Application Specific Controller (B-ASC)

Segmentation Capability

Segmented responses supported Window Size - 64

Standard Object Types Supported

Object-Type	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Device	No	No	Location, Description, Max Segments Accepted, APDU Segment Timeout, Active COV Subscriptions, Profile Name	N/A
Analog Input	No	No	Description, Reliability, Min Pres Value, Max Pres Value, Resolution, COV Increment	N/A
Analog Value	No	No	Description, Reliability, Resolution, COV Increment	Present_Value
Binary Input	No	No	Description, Reliability, Inactive Text, Active Text	N/A
Binary Output	No	No	Description, Reliability, Inactive Text, Active Text	Present_Value
Binary Value	No	No	Description, Reliability, Inactive Text, Active Text	Present_Value
Multi-State Input	No	No	Description, Reliability, State Text	N/A
Multi-State Output	No	No	Description, Reliability, State Text	Present_Value

Data Link Layer Options

BACnet IP, (Annex J), Foreign Device - IPv4 only, IPv6 not supported

Device Address Binding

Static device binding is not supported.

Character Sets Supported

ANSI x 3.4

Modbus Commission

Commissioning is the process of verifying the subsystems to achieve the owner's project requirements as intended by the building owner and as designed by the building architects and engineers.

After ACP 5 installation, you can check the operation status of the device by using the web function before connection with the BMS system.

Creating of the Points. This is NOT to be done by LG since it is directly related to the BMS side. The BMS engineer is to carry out the engineering of the Point, however LG is responsible for providing the method of how the Points are calculated.

Precautions

- To use the Modbus feature, you must select **[Settings] > [BACnet/Modbus/Lonworks Setting] > [Modbus TCP enable]** as **Set**.
- In case of installing 2 or more ACP 5, you must change **[Settings] > [BACnet/Modbus/Lonworks Setting] > [Vnet Number Setting]** so that the Vnet Numbers are not duplicate among ACP 5.
- The Vnet number is used as a Slave ID of the Modbus protocol and can be set to a value from 1 to 247.
- The Read Single Coils command (Function Code 1) can read up to 2,000 commands at a time. The Read Holding Registers command (Function Code 3) can read up to 125 at a time.

Supported Function Codes

The Modbus function codes supported by ACP 5 are as follows:

Refer to the Register List page for controlled/monitored items supported by each function code.

- 0x01
- 0x03
- 0x05
- 0x06

Modbus Register List

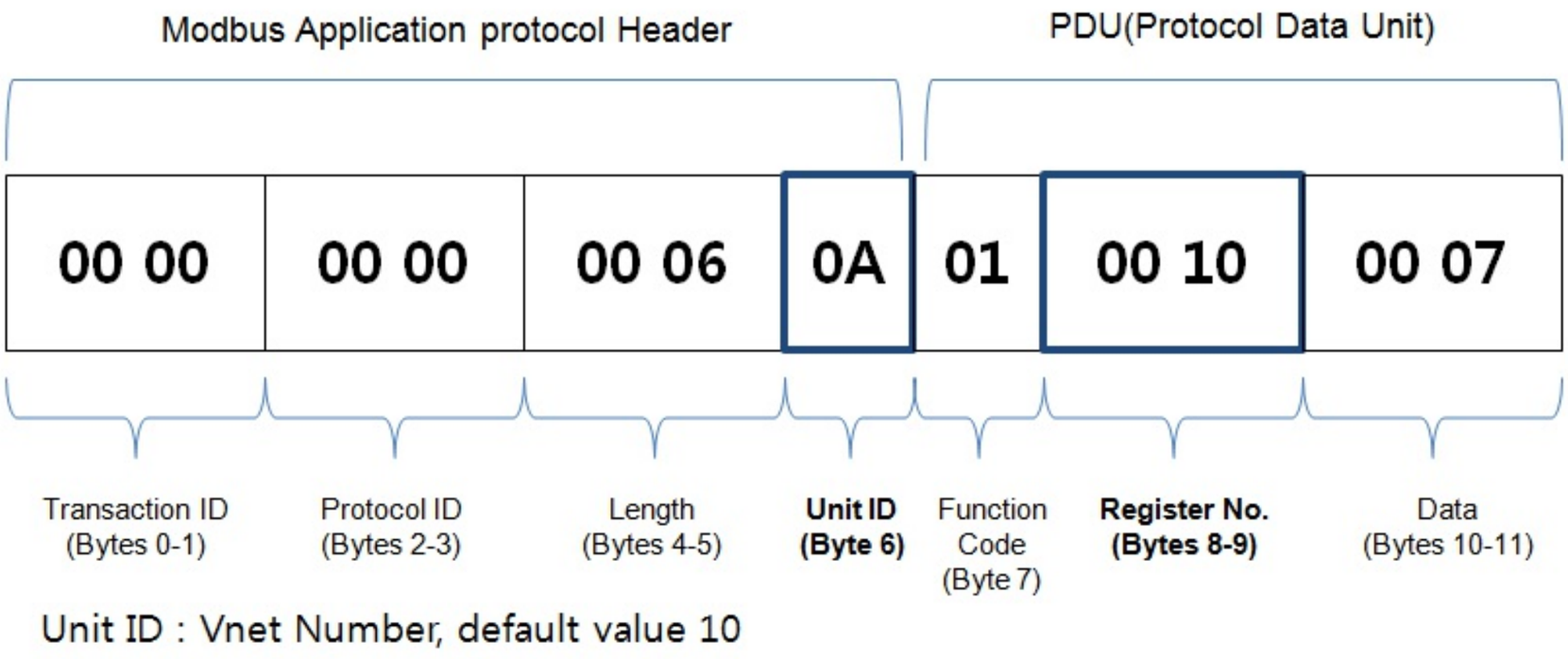
It describes the Modbus Register List provided by ACP 5.

- Definition of Register Address
- Indoor Unit Register List
- ERV Register List
- AHU Register List
- Heating Register List

Definition of Register Address

The Register Address of each device is assigned as follows.

- Protocol Configuration



- Register No.



Example of Register Address

Description of Register	Product Type (Hexadecimal)	Product Address (Hexadecimal)	Point (Hexadecimal)	Function Code(Hexadecimal)	Register Address (Hexadecimal)
IDU Address 0x00, On/Off	0x0	0x00	0x1	0x1 / 0x5	0x0000
IDU Address 0x00, Operation Mode	0x0	0x00	0x1	0x3 / 0x6	0x0000
IDU Address 0x1B, On/Off	0x0	0x1B	0x1	0x1 / 0x5	0x01B0
IDU Address 0x1B, Operation Mode	0x0	0x1B	0x1	0x3 / 0x6	0x01B0
ERV Address 0x00, On/Off	0x4	0x00	0x1	0x1 / 0x5	0x4000
ERV Address 0x00, Operation Mode	0x4	0x00	0x1	0x3 / 0x6	0x4000
ERV Address 0x1B, On/Off	0x4	0x1B	0x1	0x1 / 0x5	0x41B0
ERV Address 0x1B, Operation Mode	0x4	0x1B	0x1	0x3 / 0x6	0x41B0
AHU Address 0x00, On/Off	0x8	0x00	0x1	0x1 / 0x5	0x8000
AHU Address 0x00, Operation Mode	0x8	0x00	0x1	0x3 / 0x6	0x8000
AHU Address 0x00, Current OA Damper	0x8	0x01	0x1	0x3	0x8010
AHU Address 0x0F, On/Off	0x8	0x1E	0x1	0x1 / 0x5	0x81E0
AHU Address 0x0F, Operation Mode	0x8	0x1E	0x1	0x3 / 0x6	0x81E0
AHU Address 0x0F, Current OA Damper	0x8	0x1F	0x1	0x3	0x81F0
Heating Address 0x00, On/Off	0xC	0x00	0x1	0x1 / 0x5	0xC000
Heating Address 0x00, Operation Mode	0xC	0x00	0x1	0x3 / 0x6	0xC000
Heating Address 0x0F, On/Off	0xC	0x0F	0x1	0x1 / 0x5	0xC0F0
Heating Address 0x0F, Operation Mode	0xC	0x0F	0x1	0x3 / 0x6	0xC0F0

Indoor Unit Register List

One Indoor unit has the following list of points. Some points may not be supported depending on the product.

Point	Description	Function Code	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	On/Off	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
2	Swing	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
3	Lock	01/05	-	Permit (0)	Prohibit (1)	-	-	-	-	-
4	Mode Lock	01/05	-	Permit (0)	Prohibit (1)	-	-	-	-	-
5	Fan Lock	01/05	-	Permit (0)	Prohibit (1)	-	-	-	-	-
6	Temp Lock	01/05	-	Permit (0)	Prohibit (1)	-	-	-	-	-
7	Alarm	01	-	Normal (0)	Abnormal (1)	-	-	-	-	-
1	Operation Mode	03/06	-	-	Cool (1)	Dry (2)	Fan (3)	Auto (4)	Heat (5)	-
2	Fan Speed	03/06	-	-	Low (1)	Middle (2)	High (3)	Auto (4)	-	-
3	Set Room Temperature	03/06	℃	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
4	Set Upper Temperature	03/06	℃	18 ℃ ~ 30 ℃ (64 ℉ ~ 86 ℉)						
5	Set Lower Temperature	03/06	℃	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
6	Room Temperature	03	℃							
7	Error Code	03	-	Please refer to LG error code list.						
8	Accumulated Power(LOW)	03	-	Accumulated Power Value(100 Watt) = Accumulated Power(HIGH) X 65536 + Accumulated Power(LOW)						
9	Accumulated Power(HIGH)	03	-							
10	Accumulated Gas(LOW)	03	-	Accumulated Gas Value(100 Liter) = Accumulated Gas(HIGH) X 65536 + Accumulated Gas(LOW)						
11	Accumulated Gas(HIGH)	03	-							

ERV Register List

One Indoor unit has the following list of points. Some points may not be supported depending on the product.

Point	Description	Function Code	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	On/Off	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
2	Lock	01/05	-	Permit (0)	Prohibit (1)	-	-	-	-	-
3	Filter	01/05	-	Off (0)	On (1)	-	-	-	-	-
4	Alarm	01	-	Normal (0)	Abnormal (1)	-	-	-	-	-
5	AC ON/OFF	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
6	AC Humidify	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
1	Operation Mode	03/06	-	-	Heat Exchange (1)	Auto (2)	Normal (3)	-	-	-
2	Fan Speed	03/06	-	-	Low (1)	High (2)	Super High (3)	Auto (4)	-	-
3	User Mode	03/06	-	-	Quick fresh (1)	Energy saving (2)	Clear (3)	-	-	-
4	Error Code	03	-	Please refer to LG error code list.						
5	AC Operation Mode	03/06	-	-	Cool (1)	Auto (2)	Heat (3)	-	-	-
6	Set Room Temperature	03/06	℃	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						

AHU Register List

One AHU has the following list of points. Some points may not be supported depending on the product.

Due to the limited number of points, One AHU device uses two product addresses. Refer to the Definition of Register Address page for the detail information.

Point	Description	Function Code	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
Product Address X 2										
1	On/Off	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
2	Lock	01/05	-	Permit (0)	Prohibit (1)	-	-	-	-	-
3	Filter	01	-	Off (0)	On (1)	-	-	-	-	-
4	FireAlarm	01/05	-	Off (0)	On (1)	-	-	-	-	-
5	Humidity Oper	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
6	Auto Ventilation ON/OFF	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
7	Humidify ON/OFF Status	01	-	Stop (0)	Start (1)	-	-	-	-	-
8	Heater ON/OFF Status	01	-	Stop (0)	Start (1)	-	-	-	-	-
9	Ventilator FAN ON/OFF	01	-	Stop (0)	Start (1)	-	-	-	-	-
10	Supply Unit FAN ON/OFF	01	-	Stop (0)	Start (1)	-	-	-	-	-
11	Alarm	01	-	Normal (0)	Abnormal (1)	-	-	-	-	-
1	Operation Mode	03/06	-	-	Cool (1)	Dry (2)	Fan (3)	Energy saving (4)	Heat (5)	-
2	Set Room Temperature	03/06	℃	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
3	Supply Unit Temperature	03	℃							
4	Outdoor Unit Temperature	03	℃							
5	Ventilation UnitTemperature	03	℃							
6	Mix Unit Temperature	03	℃							
7	Set Humidity	03/06	%	40 % ~ 60 %						
8	Supply Unit Humidity	03	%							
9	Outdoor Unit Humidity	03	%							
10	Ventilation Unit Humidity	03	%							
11	CO2 Value	03	-	0~255 (Real Value = Value*10, Example : In case Value is 20, CO2 is 20*10=200ppm)						
12	Error Code	03	-	Please refer to LG error code list.						
Product Address X 2 + 1										
1	Current OA Damper	03	º							
2	Current EA Damper	03	º							
3	Current Mix Damper	03	º							
4	Cooling OA Damper	03/06	º	0 º ~ 90 º						
5	Cooling EA Damper	03/06	º	0 º ~ 90 º						
6	Cooling Mix Damper	03/06	º	0 º ~ 90 º						
7	Heating OA Damper	03/06	º	0 º ~ 90 º						
8	Heating EA Damper	03/06	º	0 º ~ 90 º						
9	Heating Mix Damper	03/06	º	0 º ~ 90 º						
10	FAN OA Damper	03/06	º	0 º ~ 90 º						
11	FAN EA Damper	03/06	º	0 º ~ 90 º						
12	FAN Mix Damper	03/06	º	0 º ~ 90 º						

Heating Register List

One Heating has the following list of points. Some points may not be supported depending on the product.

Point	Description	Function Code	Unit	Text-0	Text-1	Text-2	Text-3	Text-4	Text-5	Text-6
1	On/Off	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
2	Lock	01/05	-	Permit (0)	Prohibit (1)	-	-	-	-	-
3	Setting Temperature Reference (Air/Water)	01	-	Air (0)	Water (1)	-	-	-	-	-
4	Set Hot Water Temperature	01	-	Normal (0)	Hot Water Only (1)	-	-	-	-	-
5	Alarm	01	-	Normal (0)	Abnormal (1)	-	-	-	-	-
6	HotWater On/Off	01/05	-	Stop (0)	Start (1)	-	-	-	-	-
1	Operation Mode	03/06	-	-	Cool (1)	Heat (2)	Auto (3)	-	-	-
2	Set Room Temperature	03/06	℃	16 ℃ ~ 30 ℃ (60 ℉ ~ 86 ℉)						
3	Hot Water Only Mode	03/06	℃	30 ℃ ~ 80 ℃ (86 ℉ ~ 176 ℉)						
4	Set PipeOut Water Temperature	03/06	℃	6 ℃ ~ 80 ℃ (42 ℉ ~ 176 ℉)						
5	Room Temperature	03	℃							
6	Error Code	03	-	Please refer to LG error code list.						
7	Pipe Inlet Temperature Status	03	℃							
8	Water Tank Temperature Status	03	℃							
9	Solar Temperature Status	03	℃							
10	Pipe Outlet Temperature tatus	03	℃							

Lonworks Commission

Der erste Vorgang, bei dem das BMS-System mit ACP 5 verbunden wird, heißt Inbetriebnahme.

1. Nach der Installation von ACP 5 die Web-Funktion verwenden, um den Betriebsstatus des verknüpften Geräts zu überprüfen, bevor die Verbindung zum BMS-System hergestellt wird.

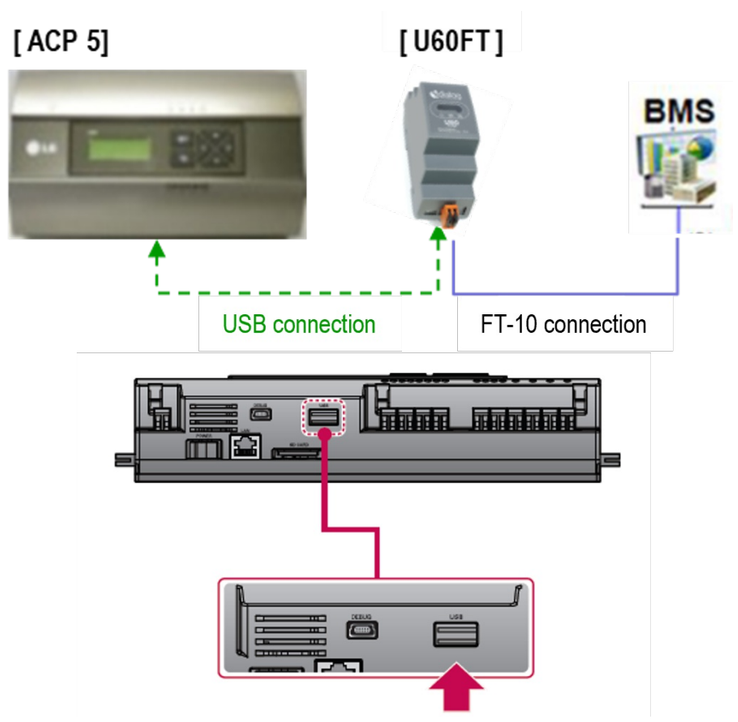
2. Nachdem das U60FT-Kommunikationsmodul vorbereitet worden ist, die FT-10-Kommunikationsleitung an die USB-Schnittstelle anzuschließen - siehe Abbildung.

3. Unter [Settings] > [BACnet/Modbus/Lonworks Settings] müssen [Use Lonworks] und [Temperature Unit] angegeben werden, dann auf die Schaltfläche "Anwenden" drücken, um die [SVC pin Settings] zu aktivieren.

4. Wenn der Bildschirm "SVC Pin press request" auf dem BMS-Engineering-Bildschirm erscheint und eine Verbindung zwischen BMS und Kommunikation besteht, zur Aktivierung auf die Schaltfläche "Connect" klicken.

Precautions

- Für den Anschluss des BMS-Systems und die Kommunikation über das Lonworks-Protokoll wird ein separates Kommunikationsmodul benötigt.
- Im BMS-Engineering stellt LG nur die Punkteliste des Kopplungsgeräts zur Verfügung.



Funktionsblock-Liste

Beschreibt die durch ACP 5 gelieferte Funktionsblock-Liste.

- Inneneinheit-Funktionsblock
- ERV Funktionsblock
- ERV DX Funktionsblock
- Wärmepumpe Funktionsblock

Inneneinheit-Funktionsblock

① Standard Function Block

Standard Function Block	
SNVT_switch	nviOnOff
SNVT_hvac_mode	nviHeatCool
SNVT_switch	nviLock
SNVT_temp_p	nviSetTemp
SNVT_switch	nviFanSpeed
SNVT_switch	nviSwing_Heater
SNVT_switch	nviModlok
SNVT_switch	nviFanlok
SNVT_switch	nviTmplok_Humid
SNVT_temp_p	nviLow_HW_Tmp
SNVT_temp_p	nviUp_Tmp

SCC(8500)
FB

IDU
Netzwerk
Variable

Standard Function Block	
SNVT_switch	nvoOnOff
SNVT_hvac_mode	nvoHeatCool
SNVT_switch	nvoLock
SNVT_temp_p	nvoSetTemp
SNVT_switch	nvoFanSpeed
SNVT_switch	nvoSwing_Heater
SNVT_switch	nvoModlok
SNVT_switch	nvoFanlok
SNVT_switch	nvoTmplok_Humid
SNVT_temp_p	nvoLow_HW_Tmp
SNVT_temp_p	nvoUp_Sol_Tmp
SNVT_count	nvoPType
SNVT_count	nvoPAddr
SNVT_temp_p	nvoSpaceTemp
SNVT_hvac_status	nvoUnitStatus
SNVT_elec_kwh_l	nvoAccuPw

② General Function Block

General Function Block	
SNVT_count	nviPeakSwTime
SNVT_lev_percent	nviPeakTgtRate
SNVT_switch	nviTempUnit
SNVT_switch	nviAllTemplock
SNVT_switch	nviTotalOnOff
SNVT_temp_p	nviTotalTemp

switch(3200)
FB

IDU
Total Unit
Netzwerk
Variable

General Function Block	
SNVT_count	nvoPeakSwTime
SNVT_lev_percent	nvoPeakTgtRate
SNVT_switch	nvoTempUnit
SNVT_lev_percent	nvoPeakCurRate
SNVT_elec_kwh_l	nvoTotalAccuPw

SNVT_state_64	nvoDefrost

③ Steuerung/Überwachung Point

Steuerung	
Ein/Aus	Betriebsmodus
Sperren	Temperatureinstellung
Lüftergeschwindigkeit	Schwingen
Modus Sperre	Lüfter-Sperre
Temp-Sperre	Temperatur-Untergrenze
Temperatur-Obergrenze	PeakShiftTime
Spitzensollwert-Verhältnis	Temperatureinheit
Gesamttemperatursperre	Insgesamt Ein/Aus
Gesamteinstellung Temperatur	

Überwachung	
Ein/Aus	Betriebsmodus
Sperren	Temperatureinstellung
Lüftergeschwindigkeit	Schwingen
Modus Sperre	Lüfter-Sperre
Temp-Sperre	Temperatur-Untergrenze
Temperatur-Obergrenze	Gerätetyp
Geräteadresse	Aktuelle Temperatur
Alarm	Leistung
PeakShiftTime	Spitzensollwert-Verhältnis
Temperatureinheit	Laufendes Verhältnis von Spitzenstrom
Insgesamt akkumulierte Leistung	Außeneinheit enteisen

※ Für eine IDU-Einheit können Sie wie in der Abbildung gezeigt die Steuerung und Überwachung aktivieren.

※ Die Netzwerk-Variable kann von der tatsächlichen abweichen.

④ Wärmepumpe Standard NV(Network Variable) Liste

	Name	Object Type	Netzwerk-Variable	Input / Output	Unit				
1	Ein/Aus (setting)	SNVT_switch	nviOnOff	input	0.0 0(Aus)	100.0 1(Ein)			
2	Ein/Aus (status)	SNVT_switch	nvoOnOff	output	0.0 0(Aus)	100.0 1(Ein)			
3	Betriebsmodus (setting)	SNVT_hvac_mode	nviHeatCool	input	HVAC_AUTO(Automatisch)	HVAC_HEAT(Heizen)	HVAC_COOL(Kühlen)	HVAC_FAN_ONLY(Ventilator)	H
4	Betriebsmodus (status)	SNVT_hvac_mode	nvoHeatCool	output	HVAC_AUTO(Automatisch)	HVAC_HEAT(Heizen)	HVAC_COOL(Kühlen)	HVAC_FAN_ONLY(Ventilator)	H
5	Sperren(setting)	SNVT_switch	nviLock	input	0.0 0(Löschen)	100.0 1(Sperren)			
6	Sperren (status)	SNVT_switch	nvoLock	output	0.0 0(Löschen)	100.0 1(Sperren)			
7	Temperatureinstellung (setting)	SNVT_temp_p	nviSetTemp	input	16 ~ 30℃ (60 ~ 86 ℉)				
8	Temperatureinstellung (status)	SNVT_temp_p	nvoSetTemp	output	16 ~ 30℃ (60 ~ 86 ℉)				
9	Lüftergeschwindigkeit (setting)	SNVT_switch	nviFanSpeed	input	0.0 0(Automatisch)	1.0 0(Niedrig)	2.0 0(Mittel)	3.0 0(Hoch)	
10	Lüftergeschwindigkeit (status)	SNVT_switch	nvoFanSpeed	output	0.0 0(Automatisch)	1.0 0(Niedrig)	2.0 0(Mittel)	3.0 0(Hoch)	
11	Schwingen (setting)	SNVT_switch	nviSwing_Heater	input	0.0 0(Aus)	100.0 1(Ein)			
12	Schwingen (status)	SNVT_switch	nvoSwing_Heater	output	0.0 0(Aus)	100.0 1(Ein)			
13	Modus Sperre (setting)	SNVT_switch	nviModlok	input	0.0 0(Löschen)	100.0 1(Sperren)			
14	Modus Sperre (status)	SNVT_switch	nvoModlok	output	0.0 0(Löschen)	100.0 1(Sperren)			
15	Lüfter-Sperre (setting)	SNVT_switch	nviFanlok	input	0.0 0(Löschen)	100.0 1(Sperren)			
16	Lüfter-Sperre (status)	SNVT_switch	nvoFanlok	output	0.0 0(Löschen)	100.0 1(Sperren)			
17	Temp-Sperre (setting)	SNVT_switch	nviTmplok_Humid	input	0.0 0(Löschen)	100.0 1(Sperren)			
18	Temp-Sperre (status)	SNVT_switch	nvoTmplok_Humid	output	0.0 0(Löschen)	100.0 1(Sperren)			
19	Temperatur-Untergrenze (setting)	SNVT_temp_p	nviLow_HW_Tmp	input	16 ~ 30℃ (60 ~ 86 ℉)				
20	Temperatur-Untergrenze (status)	SNVT_temp_p	nvoLow_HW_Tmp	output	16 ~ 30℃ (60 ~ 86 ℉)				
21	Temperatur-Obergrenze (setting)	SNVT_temp_p	nviUp_Tmp	input	16 ~ 30℃ (60 ~ 86 ℉)				
22	Temperatur-Obergrenze (status)	SNVT_temp_p	nvoUp_Sol_Tmp	output	16 ~ 30℃ (60 ~ 86 ℉)				
23	Gerätetyp	SNVT_count	nvoPType	output	0				

24	Geräteadresse	SNVT_count	nvoPAddr	output	0~255
25	Aktuelle Temperatur	SNVT_temp_p	nvoSpaceTemp	output	0 ~ 99℃ (32 ~ 211 ℉)
26	Alarm	SNVT_hvac_status	nvoUnitStatus	output	mode/0/0/0/0/0/alarm
27	Leistung	SNVT_elec_kwh_l	nvoAccuPw	output	0~214,748,364.6

⑤ Wärmepumpe General NV(Network Variable) Liste

	Name	Object Type	Netzwerk-Variable	Input / Output	Unit	
1	PeakShiftTime(second) (setting)	SNVT_count	nviPeakSwTime	input	300~900	
2	PeakShiftTime(second) (status)	SNVT_count	nvoPeakSwTime	output	300~900	
3	Spitzensollwert-Verhältnis(%) (setting)	SNVT_lev_percent	nviPeakTgtRate	input	0~100	
4	Spitzensollwert-Verhältnis(%) (status)	SNVT_lev_percent	nvoPeakTgtRate	output	0~100	
5	Temperatureinheit (setting)	SNVT_switch	nviTempUnit	input	0.0 0(Celsius)	100.0 1(Fahrenheit)
6	Temperatureinheit (status)	SNVT_switch	nvoTempUnit	output	0.0 0(Celsius)	100.0 1(Fahrenheit)
7	Gesamttemperatursperre	SNVT_switch	nviAllTemplock	input	0.0 0(Löschen)	100.0 1(Sperren)
8	Insgesamt Ein/Aus	SNVT_switch	nviTotalOnOff	input	0.0 0(Aus)	100.0 1(Ein)
9	Gesamteinstellung Temperatur	SNVT_temp_p	nviTotalTemp	input	16 ~ 30℃ (60 ~ 86℉)	
10	Laufendes Verhältnis von Spitzenstrom (%)	SNVT_lev_percent	nvoPeakCurRate	output	0~100	
11	Insgesamt akkumulierte Leistung (Kwh)	SNVT_elec_kwh_l	nvoTotalAccuPw	output	0~214,748,364.6	
12	Außeneinheit enteisen	SNVT_state_64	nvoDefrost	output	0(Aus), 1(Ein)	

ERV Funktionsblock

① Standard Function Block

Standard Function Block	
SNVT_switch	nviOnOff
SNVT_hvac_mode	nviHeatCool
SNVT_switch	nviLock
SNVT_switch	nviFanSpeed
SNVT_switch	nviSwing_Heater
SNVT_count	nviUsrmod

SCC(8500)
FB

ERV
Netzwerk
Variable

Standard Function Block	
SNVT_switch	nvoOnOff
SNVT_hvac_mode	nvoHeatCool
SNVT_switch	nvoLock
SNVT_switch	nvoFanSpeed
SNVT_switch	nvoSwing_Heater
SNVT_count	nvoUsrmod
SNVT_count	nvoPType
SNVT_count	nvoPAddr
SNVT_hvac_status	nvoUnitStatus

② General Function Block

General Function Block	
SNVT_switch	nviTotalOnOff

switch(3200)
FB

ERV
Total Unit
Netzwerk
Variable

③ Steuerung/Überwachung Point

Steuerung	
Ein/Aus	Betriebsmodus
Sperren	Lüftergeschwindigkeit
Heizung	Benutzermodus
Insgesamt Ein/Aus	

Überwachung	
Ein/Aus	Betriebsmodus
Sperren	Lüftergeschwindigkeit
Heizung	Benutzermodus-)
Gerätetyp	Geräteadresse
Alarm	

※ Für eine ERV-Einheit können Sie wie in der Abbildung gezeigt die Steuerung und Überwachung aktivieren.

※ Die Netzwerk-Variable kann von der tatsächlichen abweichen.

④ ERV Standard NV(Netzwerk-Variable) Liste

	Name	Object Type	Netzwerk-Variable	Input / Output	Unit		
1	Ein/Aus (setting)	SNVT_switch	nviOnOff	input	0.0 0(Aus)	100.0 1(Ein)	
2	Ein/Aus (status)	SNVT_switch	nvoOnOff	output	0.0 0(Aus)	100.0 1(Ein)	

3	Betriebsmodus (setting)	SNVT_hvac_mode	nviHeatCool	input	HVAC_AUTO(Automatisch)	HVAC_HEAT(Wärmeaustausch)	HVAC_FAN_ONLY(Normal)	
4	Betriebsmodus (status)	SNVT_hvac_mode	nvoHeatCool	output	HVAC_AUTO(Automatisch)	HVAC_HEAT(Wärmeaustausch)	HVAC_FAN_ONLY(Normal)	
5	Sperren(setting)	SNVT_switch	nviLock	input	0.0 0(Löschen)	100.0 1(Sperren)		
6	Sperren (status)	SNVT_switch	nvoLock	output	0.0 0(Löschen)	100.0 1(Sperren)		
7	Lüftergeschwindigkeit (setting)	SNVT_switch	nviFanSpeed	input	0.0 0(Automatisch)	1.0 0(Niedrig)	3.0 0(Hoch)	4.0 0(Super-hoch)
8	Lüftergeschwindigkeit (status)	SNVT_switch	nvoFanSpeed	output	0.0 0(Automatisch)	1.0 0(Niedrig)	3.0 0(Hoch)	4.0 0(Super-hoch)
9	Heizung (setting)	SNVT_switch	nviSwing_Heater	input	0.0 0(Löschen)	100.0 1(Einrichtung)		
10	Heizung (status)	SNVT_switch	nvoSwing_Heater	output	0.0 0(Löschen)	100.0 1(Einrichtung)		
11	Benutzermodus (Einstellung)	SNVT_count	nviUsrmod	input	0(NONE)	1(Quick Fresh)	2(Energieeinsparung)	
12	Benutzermodus-(Status)	SNVT_count	nvoUsrmod	output	0(NONE)	1(Quick Fresh)	2(Energieeinsparung)	
13	Gerätetyp	SNVT_count	nvoPType	output	1			
14	Geräteadresse	SNVT_count	nvoPAddr	output	0~255			
15	Alarm	SNVT_hvac_status	nvoUnitStatus	output	mode/0/0/0/0/0/alarm			

⑤ ERV General NV(Netzwerk-Variable) Liste

	Name	Object Type	Netzwerk-Variable	Input / Output	Unit	
1	Insgesamt Ein/Aus	SNVT_switch	nviTotalOnOff	input	0.0 0(Aus)	100.0 1(Ein)

ERV DX Funktionsblock

① Standard Function Block

Standard Function Block	
SNVT_switch	nviOnOff
SNVT_hvac_mode	nviHeatCool
SNVT_switch	nviLock
SNVT_temp_p	nviSetTemp
SNVT_switch	nviFanSpeed
SNVT_switch	nviSwing_Heater
SNVT_switch	nviTmplok_Humid
SNVT_count	nviUsrmod
SNVT_switch	nviIDUrun_HWEn
SNVT_hvac_mode	nviIDUmod

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FB

ERV DX
Netzwerk
Variable

Standard Function Block	
SNVT_switch	nvoOnOff
SNVT_hvac_mode	nvoHeatCool
SNVT_switch	nvoLock
SNVT_temp_p	nvoSetTemp
SNVT_switch	nvoFanSpeed
SNVT_switch	nvoSwing_Heater
SNVT_switch	nvoTmplok_Humid
SNVT_count	nviUsrmod
SNVT_switch	nviIDUrun_HWEn
SNVT_hvac_mode	nviIDUmod
SNVT_count	nvoPType
SNVT_count	nvoPAddr
SNVT_hvac_status	nvoUnitStatus
SNVT_switch	nvoMS_HWmod

② General Function Block

General Function Block	
SNVT_switch	nviTempUnit
SNVT_switch	nviTotalOnOff
SNVT_temp_p	nviTotalTemp

switch(3200)
FB

ERV DX
Total Unit
Netzwerk
Variable

General Function Block	
SNVT_switch	nvoTempUnit

③ Steuerung/Überwachung Point

Steuerung	
Ein/Aus	Betriebsmodus
Sperren	Temperatureinstellung
Lüftergeschwindigkeit	Heizung
Befeuchten	Benutzermodus
AC-Betrieb	AC-Modus
Temperatureinheit	Insgesamt Ein/Aus
Gesamteinstellung Temperatur	

Überwachung	
Ein/Aus	Betriebsmodus
Sperren	Temperatureinstellung
Lüftergeschwindigkeit	Heizung
Befeuchten	Benutzermodus
AC-Betrieb	AC-Modus
Gerätetyp	Geräteadresse
Alarm	Master/Slave
Temperatureinheit	

※ Für eine ERV DX-Einheit können Sie wie in der Abbildung gezeigt die Steuerung und Überwachung aktivieren.

※ Die Netzwerk-Variable kann von der tatsächlichen abweichen.

④ ERV DX Standard NV(Netzwerk-Variable) Liste

	Name	Object Type	Netzwerk-Variable	Input / Output	Unit			
1	Ein/Aus (setting)	SNVT_switch	nviOnOff	input	0.0 0(Aus)	100.0 1(Ein)		
2	Ein/Aus (status)	SNVT_switch	nvoOnOff	output	0.0 0(Aus)	100.0 1(Ein)		
3	Betriebsmodus (setting)	SNVT_hvac_mode	nviHeatCool	input	HVAC_HEAT(Wärmeaustausch)	HVAC_FAN_ONLY(Normal)	HVAC_AUTO(Automatisch)	
4	Betriebsmodus (status)	SNVT_hvac_mode	nvoHeatCool	output	HVAC_HEAT(Wärmeaustausch)	HVAC_FAN_ONLY(Normal)	HVAC_AUTO(Automatisch)	
5	Lock (setting)	SNVT_switch	nviLock	input	0.0 0(Löschen)	100.0 1(Sperren)		
6	Lock (status)	SNVT_switch	nvoLock	output	0.0 0(Löschen)	100.0 1(Sperren)		
7	Temperatureinstellung (setting)	SNVT_temp_p	nviSetTemp	input	16 ~ 30℃ (60 ~ 86 ℉)			
8	Temperatureinstellung (status)	SNVT_temp_p	nvoSetTemp	output	16 ~ 30℃ (60 ~ 86 ℉)			
9	Lüftergeschwindigkeit (setting)	SNVT_switch	nviFanSpeed	input	0.0 0(Automatisch)	1.0 0(Niedrig)	3.0 0(Hoch)	4.0 0(Super-hoch)
10	Lüftergeschwindigkeit (status)	SNVT_switch	nvoFanSpeed	output	0.0 0(Automatisch)	1.0 0(Niedrig)	3.0 0(Hoch)	4.0 0(Super-hoch)
11	Heizung (setting)	SNVT_switch	nviSwing_Heater	input	0.0 0(Löschen)	100.0 1(Einrichtung)		
12	Heizung (status)	SNVT_switch	nvoSwing_Heater	output	0.0 0(Löschen)	100.0 1(Einrichtung)		
13	Befeuchten (setting)	SNVT_switch	nviTmplok_Humid	input	0.0 0(Löschen)	100.0 1(Einrichtung)		
14	Befeuchten (status)	SNVT_switch	nvoTmplok_Humid	output	0.0 0(Löschen)	100.0 1(Einrichtung)		
15	Benutzermodus(setting)	SNVT_count	nviUsrmod	input	0(NONE)	1(Quick Fresh)	2(Energieeinsparung)	
16	Benutzermodus(status)	SNVT_count	nvoUsrmod	output	0(NONE)	1(Quick Fresh)	2(Energieeinsparung)	
17	AC-Betrieb (setting)	SNVT_switch	nviIDUrun_HWEn	input	0.0 0(Aus)	100.0 1(Ein)		
18	AC-Betrieb (status)	SNVT_switch	nvoIDUrun_HWEn	output	0.0 0(Aus)	100.0 1(Ein)		
19	AC-Modus (setting)	SNVT_hvac_mode	nviIDUmod	input	HVAC_COOL(Kühlen)	HVAC_HEAT(Heizen)	HVAC_AUTO(Automatisch)	
20	AC-Modus (status)	SNVT_hvac_mode	nvoIDUmod	output	HVAC_COOL(Kühlen)	HVAC_HEAT(Heizen)	HVAC_AUTO(Automatisch)	
21	Gerätetyp	SNVT_count	nvoPType	output	2			
22	Geräteadresse	SNVT_count	nvoPAddr	output	0~255			
23	Alarm	SNVT_hvac_status	nvoUnitStatus	output	mode/0/0/0/0/0/alarm			
24	Master/Slave	SNVT_switch	nvoMS_HWmod	output	0.0 0(Slave)	100.0 1(Master)		

⑤ ERV DX General NV(Netzwerk-Variable) Liste

	Name	Object Type	Netzwerk-Variable	Input / Output	Unit	
1	Temperatureinheit(setting)	SNVT_switch	nviTempUnit	input	0.0 0(Celsius)	100.0 1(Fahrenheit)
2	Temperatureinheit(status)	SNVT_switch	nvoTempUnit	output	0.0 0(Celsius)	100.0 1(Fahrenheit)
3	Insgesamt Ein/Aus	SNVT_switch	nviTotalOnOff	input	0.0 0(Aus)	100.0 1(Ein)
4	Gesamteinstellung Temperatur	SNVT_temp_p	nviTotalTemp	input	16 ~ 30℃ (60 ~ 86 ℉)	

Wärmepumpe Funktionsblock

① Standard Function Block

Standard Function Block	
SNVT_switch	nviOnOff
SNVT_hvac_mode	nviHeatCool
SNVT_switch	nviLock
SNVT_temp_p	nviSetTemp
SNVT_temp_p	nviLow_HW_Tmp
SNVT_switch	nviIDUrun_HWEn

SCC(8500) FB

AWHP Netzwerk Variable

Standard Function Block	
SNVT_switch	nvoOnOff
SNVT_hvac_mode	nvoHeatCool
SNVT_switch	nvoLock
SNVT_temp_p	nvoSetTemp
SNVT_temp_p	nvoLow_HW_Tmp
SNVT_temp_p	nvoUp_Sol_Tmp
SNVT_switch	nvoFilt_Tmpsel
SNVT_switch	nvoIDUrun_HWEn
SNVT_count	nvoPType
SNVT_count	nvoPAddr
SNVT_temp_p	nvoSpaceTemp
SNVT_hvac_status	nvoUnitStatus
SNVT_temp_p	nvoTankTmp
SNVT_temp_p	nvoInTmp
SNVT_temp_p	nvoOutTmp
SNVT_switch	nvoMS_HWmod

② General Function Block

General Function Block	
SNVT_switch	nviTempUnit
SNVT_switch	nviTotalOnOff
SNVT_temp_p	nviTotalTemp

switch(3200) FB

AWHP Total Unit Netzwerk Variable

General Function Block	
SNVT_switch	nvoTempUnit

③ Steuerung/Überwachung Point

Steuerung	
Ein/Aus	Betriebsmodus
Sperren	Temperatureinstellung
Heißwassertemperatur	Heißwasser Ein/Aus (Einstellung)
Temperatureinheit	Insgesamt Ein/Aus
Gesamteinstellung Temperatur	

Überwachung	
Ein/Aus	Betriebsmodus
Sperren	Temperatureinstellung

Heißwassertemperatur	Solar-Temperaturstatus
Luft-/Wassertemperatur Innen/Außen	HotWater On/Off (Status)
Gerätetyp	Geräteadresse
Aktuelle Temperatur	Alarm
Nur Heißwassermodus	Temperaturstatus von Wassertank
Status der Rücklauftemperatur	Status der Vorlauftemperatur
Temperatureinheit	

※ Für eine AWHP-Einheit können Sie wie in der Abbildung gezeigt die Steuerung und Überwachung aktivieren.

※ Die Netzwerk-Variable kann von der tatsächlichen abweichen.

④ AWHP Standard NV(Netzwerk-Variable) Liste

	Name	Object Type	Netzwerk-Variable	Input / Output	Unit			
1	Ein/Aus (setting)	SNVT_switch	nviOnOff	input	0.0 0(Aus)	100.0 1(Ein)		
2	Ein/Aus (status)	SNVT_switch	nvoOnOff	output	0.0 0(Aus)	100.0 1(Ein)		
3	Betriebsmodus (setting)	SNVT_hvac_mode	nviHeatCool	input	HVAC_COOL(Kühlen)	HVAC_HEAT(Heizen)	HVAC_AUTO(Automatisch)	
4	Betriebsmodus (status)	SNVT_hvac_mode	nvoHeatCool	output	HVAC_COOL(Kühlen)	HVAC_HEAT(Heizen)	HVAC_AUTO(Automatisch)	
5	Sperren (setting)	SNVT_switch	nviLock	input	0.0 0(Löschen)	100.0 1(Sperren)		
6	Sperren (status)	SNVT_switch	nvoLock	output	0.0 0(Löschen)	100.0 1(Sperren)		
7	Temperatureinstellung (setting)	SNVT_temp_p	nviSetTemp	input	(Luft) 16 ~ 30℃ (60 ~ 86 ℉), (Rohr-Einlass/Auslass) 6 ~ 80℃ (42 ~ 176 ℉)			
8	Temperatureinstellung (status)	SNVT_temp_p	nvoSetTemp	output	(Luft) 16 ~ 30℃ (60 ~ 86 ℉), (Rohr-Einlass/Auslass) 6 ~ 80℃ (42 ~ 176 ℉)			
9	Heißwasser Ein/Aus (Einstellung) (setting)	SNVT_switch	nviIDUrun_HWEn	input	0.0 0(Aus)	100.0 1(Ein)		
10	Heißwasser Ein/Aus (Einstellung) (status)	SNVT_switch	nvoIDUrun_HWEn	output	0.0 0(Aus)	100.0 1(Ein)		
11	Heißwassertemperatur (setting)	SNVT_temp_p	nviLow_HW_Tmp	input	30 ~ 80℃ (86 ~ 176 ℉)			
12	Heißwassertemperatur (status)	SNVT_temp_p	nvoLow_HW_Tmp	output	30 ~ 80℃ (86 ~ 176 ℉)			
13	Luft-/Wassertemperatur Innen/Außen (status)	SNVT_switch	nvoFilt_Tmpsel	output	0.0 0(Luft)	100.0 1(Rohr-Einlass/Auslass)		
14	Gerätetyp	SNVT_count	nvoPType	output	3(Wärmepumpe)	4(Hydrokit)	7(Heat_Only_AWHP)	8(Cascade)
15	Geräteadresse	SNVT_count	nvoPAddr	output	0~255			
16	Aktuelle Temperatur	SNVT_temp_p	nvoSpaceTemp	output	0 ~ 99℃ (32 ~ 211 ℉)			
17	Alarm	SNVT_hvac_status	nvoUnitStatus	output	mode/0/0/0/0/0/alarm			
18	Nur Heißwassermodus	SNVT_switch	nvoMS_HWmod	output	0.0 0(Aus)	100.0 1(Ein)		
19	Temperaturstatus von Wassertank	SNVT_temp_p	nvoTankTmp	output	0 ~ 99℃ (32 ~ 211 ℉)			
20	Status der Rücklauftemperatur	SNVT_temp_p	nvoInTmp	output	0 ~ 99℃ (32 ~ 211 ℉)			
21	Status der Vorlauftemperatur	SNVT_temp_p	nvoOutTmp	output	0 ~ 99℃ (32 ~ 211 ℉)			
22	Solar-Temperaturstatus	SNVT_temp_p	nvoUp_Sol_Tmp	output	0 ~ 99℃ (32 ~ 211 ℉)			

⑤ AWHP General NV(Netzwerk-Variable) Liste

	Name	Object Type	Netzwerk-Variable	Input / Output	Unit	
1	Temperatureinheit (setting)	SNVT_switch	nviTempUnit	input	0.0 0(Celsius)	100.0 1(Fahrenheit)
2	Temperatureinheit (status)	SNVT_switch	nvoTempUnit	output	0.0 0(Celsius)	100.0 1(Fahrenheit)
3	Insgesamt Ein/Aus	SNVT_switch	nviTempUnit	input	0.0 0(Aus)	100.0 1(Ein)
4	Gesamteinstellung Temperatur	SNVT_temp_p	nviTotalTemp	input	(Luft) 16 ~ 30℃ (60 ~ 86 ℉), (Rohr-Einlass/Auslass) 6 ~ 80℃ (42 ~ 176 ℉)	

Netzwerk-Variable

Beschreibt die durch ACP 5 gelieferte Netzwerk-Variablen.

- IDU, ERV, ERV DX, Wärmepumpe Input/Output
- IDU, ERV, ERV DX, Wärmepumpe Output
- IDU, ERV, ERV DX, Wärmepumpe Allgemein Input/Output

IDU, ERV, ERV DX, Wärmepumpe Input/Output

1. Ein/Aus(IDU, ERV, ERV DX, Wärmepumpe)

Input	Function	Ein/Aus
	Using NV	Network Input : (SNVT_switch) nviOnOff
	Operation	Ein/Aus Steuerung
Output	Function	Ein/Aus
	Using NV	Network Output : (SNVT_switch) nvoOnOff
	Operation	Ein/Aus Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Aus
		1 = Ein

2. Betriebsmodus(IDU, ERV, ERV DX, Wärmepumpe)

Input	Function	Betriebsmodus
	Using NV	Network Input : (SNVT_hvac_mode) nviHeatCool
	Operation	Betriebsmodus Steuerung
Output	Function	Betriebsmodus
	Using NV	Network Output : SNVT_hvac_mode, nvoHeatCool
	Operation	Betriebsmodus Überwachung

Valid Range

NV	Field	Operation					
SVNT_hvac_mode	Value	Not Used(Set in 0% usually)					
	State	HVAC_AUTO = Automatisch	HVAC_HEAT = Heizen	HVAC_COOL = Kühlen	HVAC_FAN_ONLY = Ventilator	HVAC_DEHUMID = Trocken	IDU
		HVAC_AUTO = Automatisch	HVAC_HEAT = Wärmeaustausch		HVAC_FAN_ONLY = Normal		ERV
		HVAC_AUTO = Automatisch	HVAC_HEAT = Wärmeaustausch		HVAC_FAN_ONLY = Normal		ERV DX
		HVAC_AUTO = Automatisch	HVAC_HEAT = Heizen	HVAC_COOL = Kühlen			AWHP(Single, Hydrokit)
		HVAC_AUTO = Automatisch	HVAC_HEAT = Heizen				AWHP(Heatonly,Cascade)

3. Lock(IDU, ERV, ERV DX, Wärmepumpe)

Input	Function	Lock
	Using NV	Network Input : (SNVT_switch) nviLock
	Operation	Lock Steuerung
Output	Function	Lock
	Using NV	Network Output : (SNVT_switch) nvoLock
	Operation	Lock Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Löschen
		1 = Sperren

4. Temperatureinstellung(IDU, ERV DX, Wärmepumpe)

Input	Function	Temperatureinstellung
	Using NV	Network Input : (SNVT_temp_p) nviSetTemp
	Operation	Temperatureinstellung Steuerung
Output	Function	Temperatureinstellung
	Using NV	Network Output : (SNVT_temp_p) nvoSetTemp
	Operation	Temperatureinstellung Überwachung

Valid Range

NV	Operation
SVNT_temp_p	IDU, ERV DX, Wärmepumpe(Luft) : 16 ~ 30 ℃ (60 ~ 86 ℉)
	AWHP(Rohr-Einlass/Auslass) : 6 ~ 80 ℃ (42 ~ 176 ℉)

5. Lüftergeschwindigkeit(IDU, ERV, ERV DX)

Input	Function	Lüftergeschwindigkeit
	Using NV	Network Input : (SNVT_switch) nviFanSpeed
	Operation	Lüftergeschwindigkeit Steuerung
Output	Function	Lüftergeschwindigkeit
	Using NV	Network Output : (SNVT_switch) nvoFanSpeed
	Operation	Lüftergeschwindigkeit Überwachung

Valid Range

NV	Field	Operation				
SVNT_switch	Value	0 = Automatisch	1 = Niedrig	2 = Mittel	3 = Hoch	4 = Super-hoch
	State	Not Used(Set in 0 usually)				

6. Schwingen(IDU), Heizung(ERV, ERV DX)

Input	Function	Schwingen(IDU), Heizung(ERV, ERV DX)
	Using NV	Network Input : (SNVT_switch) nviSwing_Heater
	Operation	Schwingen(IDU), Heizung(ERV, ERV DX) Steuerung
Output	Function	Schwingen(IDU), Heizung(ERV, ERV DX)
	Using NV	Network Output : (SNVT_switch) nvoSwing_Heater
	Operation	Schwingen(IDU), Heizung(ERV, ERV DX) Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Aus/Löschen
		1 = Ein/Einrichtung

7. Modus Sperre(IDU)

Modus Sperre(IDU)	Function	Modus Sperre(IDU)
	Using NV	Network Input : (SNVT_switch) nviModlok
	Operation	Modus Sperre(IDU) Steuerung
Output	Function	Modus Sperre(IDU)
	Using NV	Network Output : (SNVT_switch) nvoModlok
	Operation	Modus Sperre(IDU) Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Löschen
		1 = Sperren

8. Lüfter-Sperre(IDU)

Input	Function	Lüfter-Sperre(IDU)
	Using NV	Network Input : (SNVT_switch) nviFanlok
	Operation	Lüfter-Sperre(IDU) Steuerung
Output	Function	Lüfter-Sperre(IDU)
	Using NV	Network Output : (SNVT_switch) nvoFanlok
	Operation	Lüfter-Sperre(IDU) Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Löschen
		1 = Sperren

9. Temp-Sperre(IDU), Befeuchten(ERV DX)

	Function	Temp-Sperre(IDU), Befeuchten(ERV DX)

Input	Using NV	Network Input : (SNVT_switch) nviTmplok_Humid
	Operation	Temp-Sperre(IDU), Befeuchten(ERV DX) Steuerung
Output	Function	Temp-Sperre(IDU), Befeuchten(ERV DX)
	Using NV	Network Output : (SNVT_switch) nvoTmplok_Humid
	Operation	Temp-Sperre(IDU), Befeuchten(ERV DX) Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Löschen
		1 = Sperren

10. Temperatur-Untergrenze(IDU), Heißwassertemperatur(Wärmepumpe)

Input	Function	Temperatur-Untergrenze(IDU), Heißwassertemperatur(Wärmepumpe)
	Using NV	Network Input : (SNVT_temp_p) nviLow_HW_Tmp
	Operation	Temperatur-Untergrenze(IDU), Heißwassertemperatur(Wärmepumpe) Steuerung
Output	Function	Temperatur-Untergrenze(IDU), Heißwassertemperatur(Wärmepumpe)
	Using NV	Network Output : (SNVT_temp_p) nvoLow_HW_Tmp
	Operation	Temperatur-Untergrenze(IDU), Heißwassertemperatur(Wärmepumpe) Überwachung

Valid Range

NV	Operation
SVNT_temp_p	Temperatur-Untergrenze(IDU) : 16 ~ 30 ℃ (60 ~ 86 ℉)
	Heißwassertemperatur(Wärmepumpe) : 30 ~ 80 ℃ (86 ~ 176 ℉)

11. Temperatur-Obergrenze(IDU) Input/Output, Solar-Temperaturstatus(Wärmepumpe) Output

Input	Function	Temperatur-Obergrenze(IDU)
	Using NV	Network Input : (SNVT_temp_p) nviUp_Tmp
	Operation	Temperatur-Obergrenze(IDU) Steuerung
Output	Function	Temperatur-Obergrenze(IDU), Solar-Temperaturstatus(Wärmepumpe)
	Using NV	Network Output : (SNVT_temp_p) nvoUp_Sol_Tmp
	Operation	Temperatur-Obergrenze(IDU), Solar-Temperaturstatus(Wärmepumpe) Überwachung

Valid Range

NV	Operation
SVNT_temp_p	Temperatur-Obergrenze(IDU) : 16 ~ 30 ℃ (60 ~ 86 ℉)
	Solar-Temperaturstatus(Wärmepumpe) : 0 ~ 99 ℃ (32 ~ 211 ℉)

12. Luft-/Wassertemperatur Innen/Außen(Wärmepumpe)

Output	Function	Luft-/Wassertemperatur Innen/Außen (Wärmepumpe)
	Using NV	Network Output : (SNVT_switch) nvoFilt_Tmpsel
	Operation	Luft-/Wassertemperatur Innen/Außen(Wärmepumpe) Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Luft
		1 = Rohr-Einlass/Auslass

13. AC-Betrieb(ERV DX), Heißwasser Ein/Aus(Wärmepumpe)

Input	Function	AC-Betrieb(ERV DX), Heißwasser Ein/Aus(Wärmepumpe)
	Using NV	Network Input : (SNVT_switch) nviIDUrun_HWEn
	Operation	AC-Betrieb(ERV DX), Heißwasser Ein/Aus(Wärmepumpe) Steuerung
Output	Function	AC-Betrieb(ERV DX), Heißwasser Ein/Aus(Wärmepumpe)
	Using NV	Network Output : (SNVT_switch) nvoIDUrun_HWEn
	Operation	AC-Betrieb(ERV DX), Heißwasser Ein/Aus(Wärmepumpe) Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Aus

		1 = Ein

14. AC-Modus(ERV DX)

Input	Function	AC-Modus(ERV DX)
	Using NV	Network Input : (SNVT_hvac_mode) nviIDUmod
	Operation	AC-Modus(ERV DX) Steuerung
Output	Function	AC-Modus(ERV DX)
	Using NV	Network Output : (SNVT_hvac_mode) nvoIDUmod
	Operation	AC-Modus(ERV DX) Überwachung

Valid Range

NV	Field	Operation		
SVNT_hvac_mode	Value	Not Used(Set in 0% usually)		
	State	HVAC_AUTO = Automatisch	HVAC_HEAT = Heizen	HVAC_COOL = Kühlen

15. User Mode(ERV, ERV DX)

Input	Function	User Mode(ERV, ERV DX)
	Using NV	Network Input : (SNVT_count) nviUsrmod
	Operation	User Mode(ERV, ERV DX) Steuerung
Output	Function	User Mode(ERV, ERV DX)
	Using NV	Network Output : (SNVT_count) nvoUsrmod
	Operation	User Mode(ERV, ERV DX) Überwachung

Valid Range

NV	Operation		
SVNT_count	0 = NONE	1 = Quick Fresh	2 = Energieeinsparung

IDU, ERV, ERV DX, Wärmepumpe Output

1. Gerätetyp(IDU, ERV, ERV DX, Wärmepumpe)

Output	Function	Gerätetyp
	Using NV	Network Output : (SNVT_count) nvoPType
	Operation	Gerätetyp Überwachung

Valid Range

NV	Operation						
SVNT_count	0 = IDU	1 = ERV	2 = ERV DX	3 = SINGLE_AWHP	4 = HYDROKIT	7 = Heatonly_AWHP	8 = Cascade

2. Geräteadresse(IDU, ERV, ERV DX, Wärmepumpe)

Output	Function	Geräteadresse
	Using NV	Network Output : (SNVT_count) nvoPAddr
	Operation	Geräteadresse Überwachung

Valid Range

NV	Operation
SVNT_count	0 ~ 255

3. Aktuelle Temperatur(IDU, Wärmepumpe)

Output	Function	Aktuelle Temperatur
	Using NV	Network Output : (SNVT_temp_p) nvoSpaceTemp
	Operation	Aktuelle Temperatur Überwachung

Valid Range

NV	Operation
SNVT_temp_p	0 ~ 99℃ (32 ~ 211 ℉)

4. Alarm (IDU, ERV, ERV DX, Wärmepumpe)

Output	Function	Alarm
	Using NV	Network Output : (SNVT_hvac_status) nvoUnitStatus
	Operation	Alarm Überwachung

Valid Range

NV	Field	Operation
SVNT_hvac_status (mode/0/0/0/0/0/alarm)	mode	Betriebsmodus
	alarm	0 = normal
		1 = abnormal

5. Leistung(IDU)

Output	Function	Leistung(IDU)
	Using NV	Network Output : (SNVT_elec_kwh_l) nvoAccuPw
	Operation	Leistung(IDU) Überwachung

Valid Range

NV	Operation
SNVT_elec_kwh_l	0~214,748,364.6 kwh

6. Master/Slave(ERV DX), Nur Heißwassermodus(Wärmepumpe)

Output	Function	Master/Slave(ERV DX), Nur Heißwassermodus(Wärmepumpe)
	Using NV	Network Output : (SNVT_switch) nvoMS_HWmod
	Operation	Master/Slave(ERV DX), Nur Heißwassermodus(Wärmepumpe) Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Slave(ERV DX), Aus(Wärmepumpe)

		1 = Master(ERV DX), Ein(Wärmepumpe)

7. Temperaturstatus von Wassertank(Wärmepumpe)

Output	Function	Temperaturstatus von Wassertank(Wärmepumpe)
	Using NV	Network Output : (SNVT_temp_p) nvoTankTmp
	Operation	Temperaturstatus von Wassertank(Wärmepumpe) Überwachung

Valid Range

NV	Operation
SNVT_temp_p	0 ~ 99 ℃ (32 ~ 211 ℉)

8. Status der Rücklauftemperatur(Wärmepumpe)

Output	Function	Status der Rücklauftemperatur(Wärmepumpe)
	Using NV	Network Output : (SNVT_temp_p) nvoInTmp
	Operation	Status der Rücklauftemperatur(Wärmepumpe) Überwachung

Valid Range

NV	Operation
SNVT_temp_p	0 ~ 99 ℃ (32 ~ 211 ℉)

9. Status der Vorlauftemperatur(Wärmepumpe)

Output	Function	Status der Vorlauftemperatur(Wärmepumpe)
	Using NV	Network Output : (SNVT_temp_p) nvoOutTmp
	Operation	Status der Vorlauftemperatur(Wärmepumpe) Überwachung

Valid Range

NV	Operation
SNVT_temp_p	0 ~ 99 ℃ (32 ~ 211 ℉)

IDU, ERV, ERV DX, Wärmepumpe Allgemein Input/Output

1. PeakShiftTime(IDU)

Input	Function	PeakShiftTime
	Using NV	Network Input : (SNVT_count) nviPeakSwTime
	Operation	PeakShiftTime Steuerung
Output	Function	PeakShiftTime
	Using NV	Network Output : (SNVT_count) nvoPeakSwTime
	Operation	PeakShiftTime Überwachung

Valid Range

NV	Operation
SVNT_count	300 ~ 900 second

2. Spitzensollwert-Verhältnis(IDU)

Input	Function	Spitzensollwert-Verhältnis
	Using NV	Network Input : (SNVT_lev_percent) nviPeakTgtRate
	Operation	Spitzensollwert-Verhältnis Steuerung
Output	Function	Spitzensollwert-Verhältnis
	Using NV	Network Output : (SNVT_lev_percent) nvoPeakTgtRate
	Operation	Spitzensollwert-Verhältnis Überwachung

Valid Range

NV	Operation
SVNT_lev_percent	0 ~ 100 %

Hinweise

Geben Sie den gewünschten Maximalwert in 0~99% für Maximalwertwertbetrieb EIN und 100% für AUS (Stopp) ein.

3. Temperatureinheit(IDU, ERV DX)

Input	Function	Temperatureinheit
	Using NV	Network Input : (SNVT_switch) nviTempUnit
	Operation	Temperatureinheit Steuerung
Output	Function	Temperatureinheit
	Using NV	Network Output : (SNVT_switch) nvoTempUnit
	Operation	Temperatureinheit Überwachung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Celsius
		1 = Fahrenheit

4. Gesamttemperatursperre(IDU)

Input	Function	Gesamttemperatursperre
	Using NV	Network Input : (SNVT_switch) nviAllTemplock
	Operation	Gesamttemperatursperre Steuerung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Löschen
		1 = Sperren

5. Insgesamt Ein/Aus(IDU, ERV, ERV DX, Wärmepumpe)

Input	Function	Insgesamt Ein/Aus
	Using NV	Network Input : (SNVT_switch) nviTotalOnOff
	Operation	Insgesamt Ein/Aus Steuerung

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = Aus
		1 = Ein

6. Gesamteinstellung Temperatur(IDU, ERV DX, Wärmepumpe)

Input	Function	Gesamteinstellung Temperatur
	Using NV	Network Input : (SNVT_temp_p) nviTotalTemp
	Operation	Gesamteinstellung Temperatur Steuerung

Valid Range

NV	Operation
SVNT_temp_p	IDU, ERV DX, Wärmepumpe(Luft) : 16 ~ 30 ℃ (60 ~ 86 ℉)
	AWHP(Rohr-Einlass/Auslass) : 6 ~ 80 ℃ (42 ~ 176 ℉)

7. Laufendes Verhältnis von Spitzenstrom(IDU)

Output	Function	Laufendes Verhältnis von Spitzenstrom
	Using NV	Network Output : (SNVT_lev_percent) nvoPeakCurRate
	Operation	Laufendes Verhältnis von Spitzenstrom Überwachung

Valid Range

NV	Operation
SVNT_lev_percent	0 ~ 100 %

8. Insgesamt akkumulierte Leistung(IDU)

Output	Function	Insgesamt akkumulierte Leistung
	Using NV	Network Output : (SNVT_elec_kwh_l) nvoTotalAccuPw
	Operation	Insgesamt akkumulierte Leistung Überwachung

Valid Range

NV	Operation
SNVT_elec_kwh_l	0~214,748,364.6 kwh

9. Außeneinheit enteisen(IDU)

Output	Function	Außeneinheit enteisen
	Using NV	Network Output : (SNVT_state_64) nvoDefrost
	Operation	Außeneinheit enteisen Überwachung

Valid Range

NV	Operation
SVNT_state_64	0(Aus), 1(Ein)

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