

## 功能和规格

### ACP 5

ACP 5 中央控制器，它可以对某一空间内的单独或者多达128台室内机进行管理与控制。  
ACP 5 可以（例如大楼的关管理或行政办公室）监视或控制楼宇内每个房间安装的室内机。

#### [ACP 5 功能]

- 使用外部按钮进行环境设置
- Web服务器功能嵌入
- 可连接设备

#### [ACP 5 部件]

- 部件

#### [ACP 5 各部件名称]

- 各部件名称

#### [ACP 5 硬件规格]

- 硬件规格

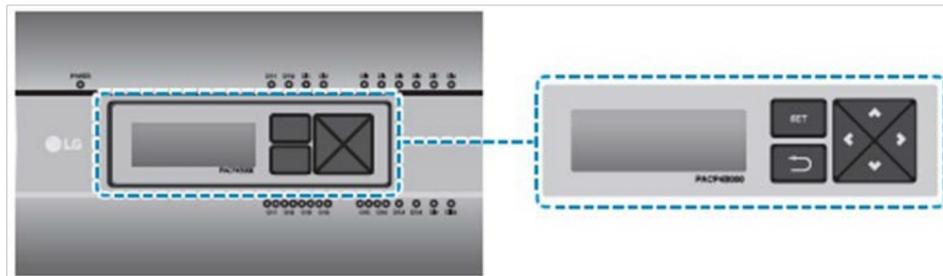
## 警告

本装置符合 CISPR 32的 Class A。在居住环境中，此设备可能会造成无线电干扰。

## 使用外部按钮进行环境设置

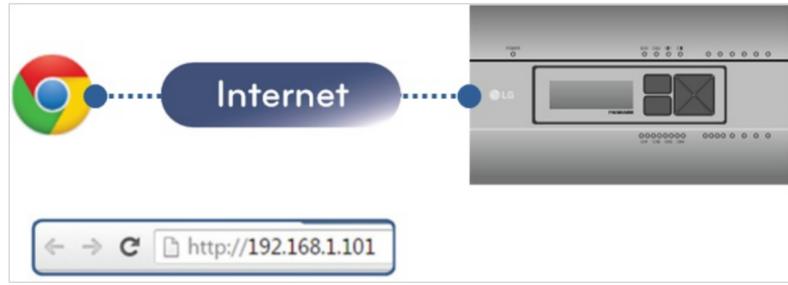
ACP 5 可以使用外部安装按钮设定以下功能。

- 设置网络环境 (IP 地址、子网掩码、网关)
- 软件升级功能
- 数据备份功能
- 数据恢复功能
- RS-485通讯记录功能
- ACP 5 屏幕显示语言设置
- 检查网络连接功能
- HTTPS端口初始化功能



## Web服务器功能嵌入

您无须安装单独的程序，可以使用网页浏览器，通过在地址窗口中输入 ACP 5 的 IP 地址来访问 ACP 5 Web服务器，从而实现对设备的监控。



- 最多控制256 台室内机
- 错误和运行状态监测
- 峰值/需量功率控制
- 系统设置功能



## 可连接设备

ACP 5 可连接的设备如下

设备	ACP 5
AC Ez(Touch)	○
简单的中央控制器	○
AC Smart 5	○
AC Manager 5	○
冷气机	○
ERV	○
Heating	○
AHU	○
冷水机	○
EXP. I/O	○
空气净化器	○
需求控制器	○



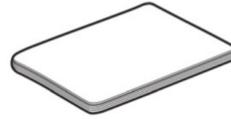
## 部件

ACP 5 的随机附件

打开包装盒，检查是否包含所有附件



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

## 注意

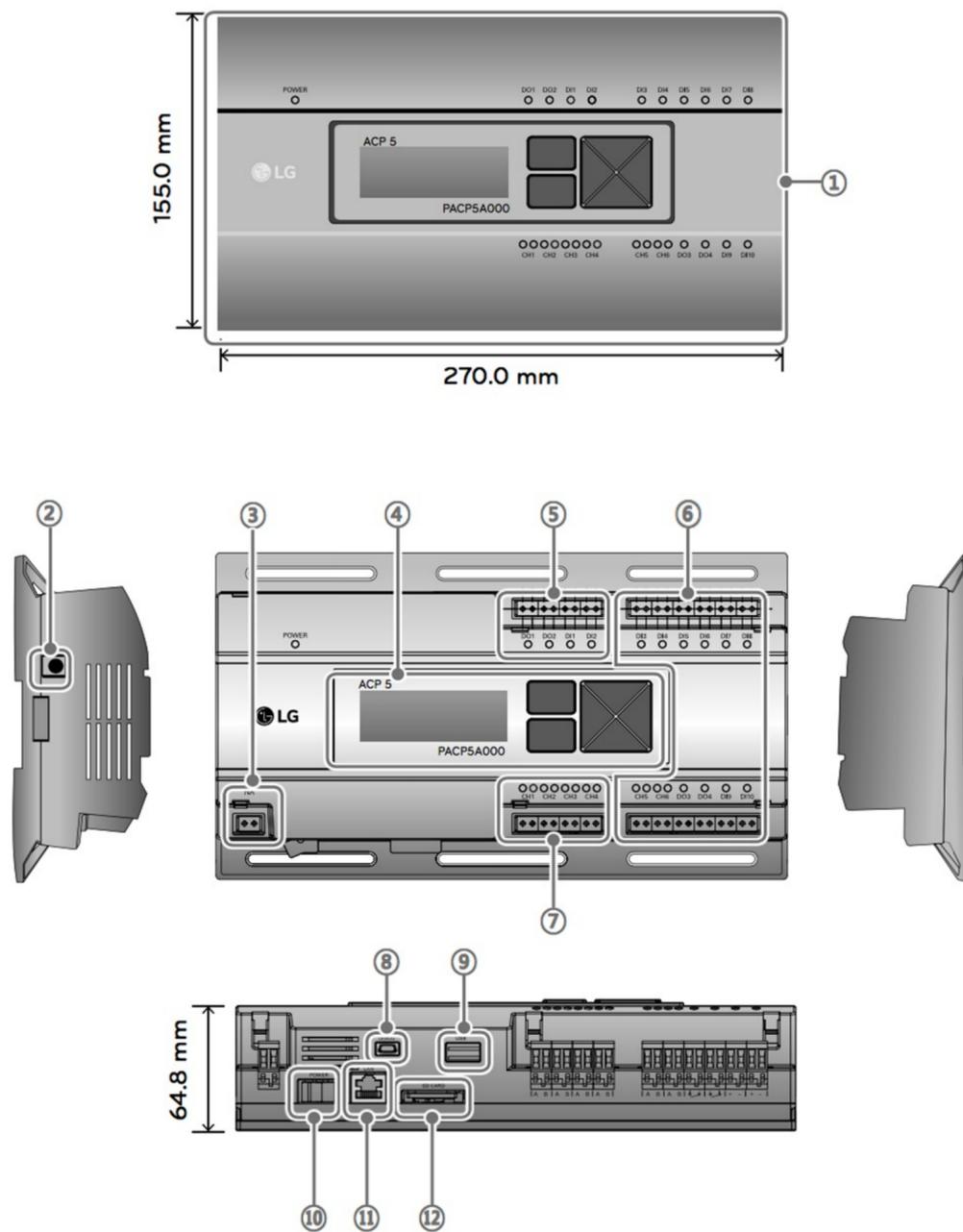
随机附件可能与图中所示有所不同

## 小心

我公司提供的存储卡是为给有资质的服务工程师提供数据备份和恢复用，禁止使用于其他目的。

## 各部件名称

ACP 5 构造如下。



编号	类别	说明
①	盖	ACP 5 的前盖
②	适配器供电接口	用于连接到电源适配器的 DC 12V 插孔
③	电源端口	24V~专用电源端口。(不支持DC12V的产品)
④	按钮和 LCD	用于设置网络环境和显示其它信息的按钮和 LCD
⑤	基本的外部输入/输出信号接口	接口连接到外部输入/输出信号的连接端口 (DI: 2, DO: 2)
⑥	可选的输入/输出和 RS-485通讯端口。	用于连接外部输入/输出信号的连接端口和用于外部扩展的RS-485通信端口。(8路DI和2路DO, 2个RS-485通信端口)
⑦	RS-485 通信端口	RS-485 通信端口连接到空调器和 ERV 设备 (共 4 个)
⑧	Mini USB 端口	USB 到串行端口, 用于软件调试
⑨	USB 端口	用于软件更新和数据备份带有, U60FT 模块的 Lonwork联动
⑩	电源开关	用于打开或关闭 ACP 5 的电源
⑪	以太网端口	以太网端口连接到互联网和 AC Manager IV
⑫	SD 卡插槽	用于 RS-485 通讯数据备份。



## 硬件规格

ACP 5 硬件规格如下。

类别	说明
使用温度范围	0 °C ~ 40 °C
额定电压	DC 12V
额定电流	最大 2.3A
通讯端口	<ul style="list-style-type: none"><li>• 以太网 10M/100M</li><li>• USB Host(软件升级、数据备份、带有 U60FT 模块的 Lonwork联动)</li><li>• Mini USB 设备(调试)</li><li>• RS-485 通讯端口 6EA</li><li>• SD 卡插槽(用于系统数据备份, 用于 RS-485 通讯数据备份)</li></ul>
外部输入/输出端口	DI 10EA, DO 4EA
LED	27EA(电源和通讯状态)
LCD	20 × 4 字符 LCD(网络环境设置和信息显示)

## 安装和设置

说明安装及设置方法。

### [安装顺序]

- ACP 5 安装顺序

### [安装及连线]

- 固定到墙上
- 安装到 DIN 导轨上
- 连接以太网电缆 (LAN 电缆)

### [LCD 环境设置]

- LCD 环境设置

### ① 网络地址设置[Network Info]

- 网络地址设置方法
- IP 地址设置
- 通过 DHCP 使用动态 IP
- 检查连接

### ② [Function]

- 软件更新
- 数据库备份
- 数据库恢复



## 安装顺序

要使用 ACP 5, 应按照如下顺序进行安装。

### STEP 1. ACP 5 安装期间的检查点

安装 ACP 5 之前,先查看注意事项。

### STEP 2. 研究整个系统的电缆连接图

研究 ACP 5 安装场地的电缆连接图

### STEP 3. 设置所有设备单元地址

设备地址不得重复。

### STEP 4. 设置 PI485 并连接电缆

正确设置 PI485 的 DIP 开关,然后连接 RS-485 通讯电缆。

### STEP 5. ACP 5 安装和连线

安装 ACP 5 并连接网络和其它电缆。

### STEP 6. ACP 5 网络地址设置

设置网络地址,以便能够通过以太网子网来访问 ACP 5。

### STEP 7. 设置用户界面访问环境

在ACP5的运行程序Web GUI中设置访问环境。

### STEP 8. 输入所有设备信息

在 ACP 5 的运行程序 Web GUI 中输入并保存设备信息。

### STEP 9. 检查 Web GUI 控制/监视

访问 ACP 5 的运行程序 Web GUI, 并检查控制/监视是否正常执行。

## 小心

- ACP 5 安装

ACP5的安装工作需要专业的技术。因此,本章所述的安装应由经认证的 安装专业人员。

与安装有关的问题和要求,请联系服务中心或经过 LG 认证的 安装专营店。

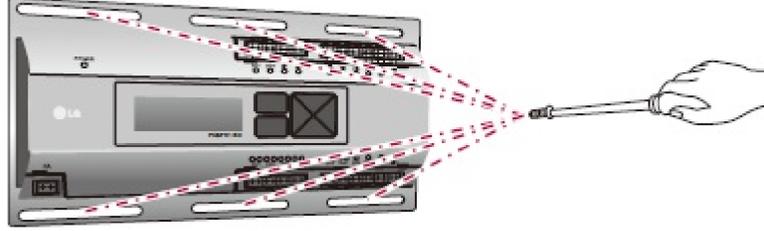
## 固定到墙上

产品 可以通过固定到墙上进行安装。

要将 产品 安装在合适的位置，请按以下说明操作。

此处说明 产品 的安装方法以及 产品 的墙面安装示例。

- 确定 产品 的安装空间。  
安装 产品 之前，检查是否有足够的空间连接 产品、电源和 LAN 电缆。
- 使用螺丝刀将其固定到墙上。根据安装位置按下图进行固定。



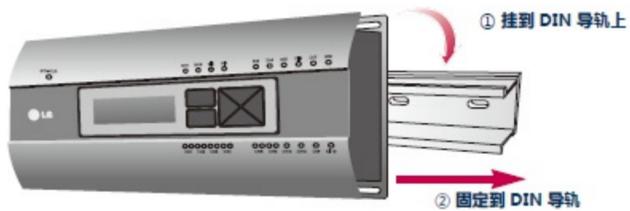
### 小心

选择安装地点时，请选择一个外部人员难以访问的地点。产品控制权可能被外部人利用。

## 安装到 DIN 导轨上

产品可以安装在宽 35 mm、高 7.5 mm 的 DIN 导轨中。要将产品安装在合适的位置，请按以下说明操作。此处说明安装方法以及在 DIN 导轨上安装的示例。

- 确定安装空间。
- 安装产品之前，检查是否有足够的空间连接产品、电源和 LAN 电缆。
- 安装 DIN 导轨。
- 将产品的上部挂到 DIN 导轨上。
- 按压产品机身，直到听到安装到位的声音。
- 拉动产品，检查是否已固定。



### 小心

- 安装到 DIN 导轨后，不要用螺钉固定到墙上。产品会被损坏。
- DIN 导轨固定螺钉规格：M3，螺钉头高度 1.75 mm ~ 2.0 mm，螺钉头直径 5.5 mm ~ 7.0 mm

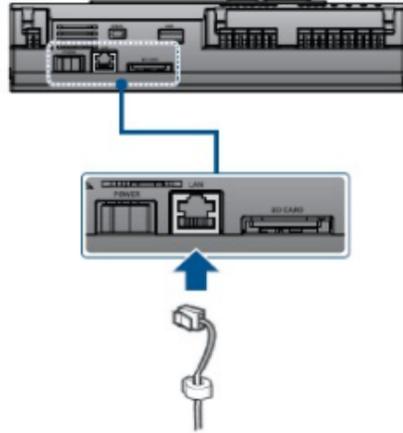
## 连接以太网电缆 (LAN 电缆)

您需要连接以太网电缆到 产品。

AC Manager 5 可以通过以太网电缆连接到交换机或 ACP。

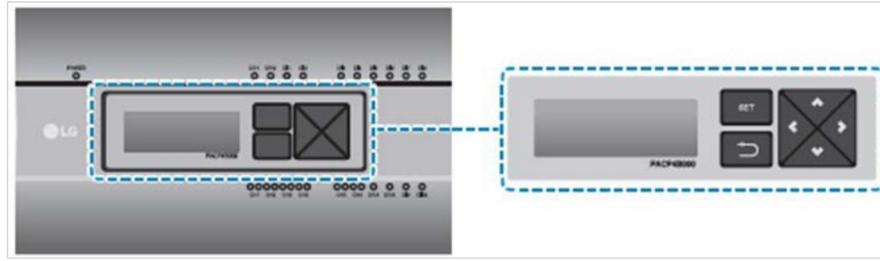
ACP 5 可以通过以太网电缆连接到交换机或 PC。

正常的LAN连接，这意味着您的PC和ACP 5都物理连接到同一个以太网交换机或路由器。



## LCD 环境设置

产品的网络环境可以通过产品前面的 LCD 和按钮进行设定。当前的产品信息和菜单显示在 LCD 上，您可以按 **SET** 按钮和 **[▲]**, **[▼]**, **[◀]**, **[▶]** 按钮更改和选择菜单。



当您按 **[SET]** 按钮时，它会进入环境设置模式。当您第一次按 **[SET]** 按钮时，将会显示设置 IP 地址的菜单，如下所示。



按 **[▲]**、**[▼]** 按钮将箭头定位到所需功能。

- 在 **[Network Info]** 菜单中，输入产品的 IP 地址等网络信息。
- 在 **[Function]** 菜单中支持产品的软件服务功能。

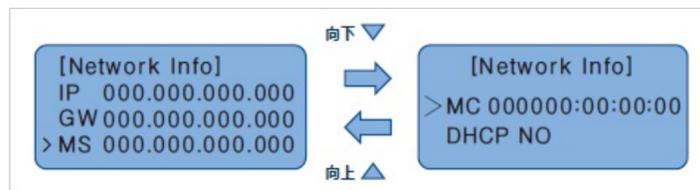
### 小心

- **[Function]** 菜单仅供系统空调维修技师使用，用户不得使用此功能。如果此功能使用不正确，可能导致 ACP 5 发生故障。

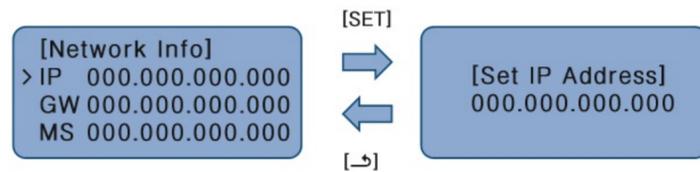
## 网络地址设置方法

在 [Network Info] 菜单中，使用 [▲], [▼] 按钮选择要设定的类别。

在 [Network Info] 菜单的第一个界面中会显示 IP、Gateway（网关）和 Netmask（子网掩码）设置，您可以使用 [▼] 按钮检查 MAC 地址和 DHCP 设置。



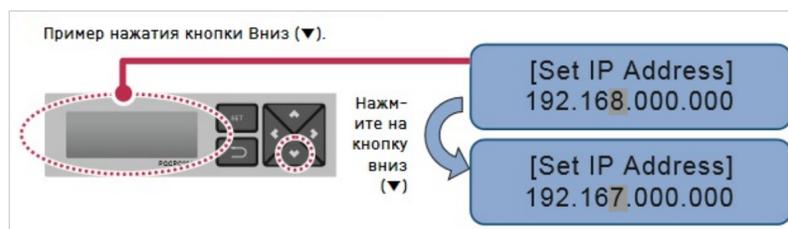
如要更改网络设置，将箭头移动到相应的设置，然后按 [SET] 按钮进入相应的设置界面。



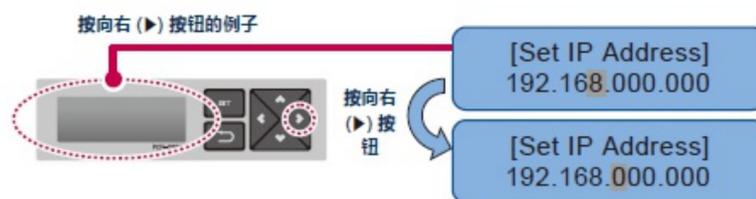
网络地址由四个 3 位数字组成。设置网络地址时，在 ACP 5 的 LCD 上显示相关地址的名称，您需要按 [▲]、[▼]、[◀]、[▶] 按钮进行设置。

当您按 [▲], [▼] 按钮时，光标所在位的数字会增加/减小；当您按 [◀], [▶] 按钮时，光标会移动到网络地址的左/右位。

按 [▼] 按钮示例



按 [▶] 按钮示例



### 小心

- 网络地址设置  
网络地址可以分成 4 个字段，每个字段不能大于 255。无法输入超过 255 的数字。

### 注意

#### 分配网络地址

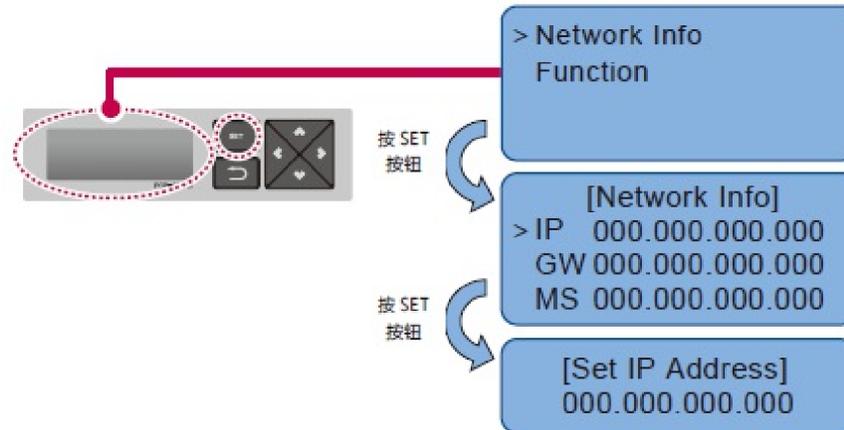
- 必须由负责相关现场的网管来分配网络地址。（IP 地址、网关地址、子网掩码）
- AC Manager 5 可使用固定 IP 和动态 IP，但建议使用固定 IP，使用动态 IP 可能会给用户带来不便。
- 当使用固定 IP 时，您需要从负责相关现场的网管那里获得网络参数（IP 地址、网关地址、子网掩码）。

## IP 地址设置

为了让用户能够通过 Web 使用产品的功能，可以给产品分配一个唯一的 IP 地址，或者使用动态 IP 设置。

下面说明如何设定固定 IP 地址。请按顺序操作。

1. 按产品的 [SET] 按钮。此时显示以下菜单界面。
  - 当您再次按 [SET] 按钮时，将显示 [Network Info] 设置界面。



2. 选择 IP 后，如果您按 [SET] 按钮，将会显示输入 IP 地址的界面。

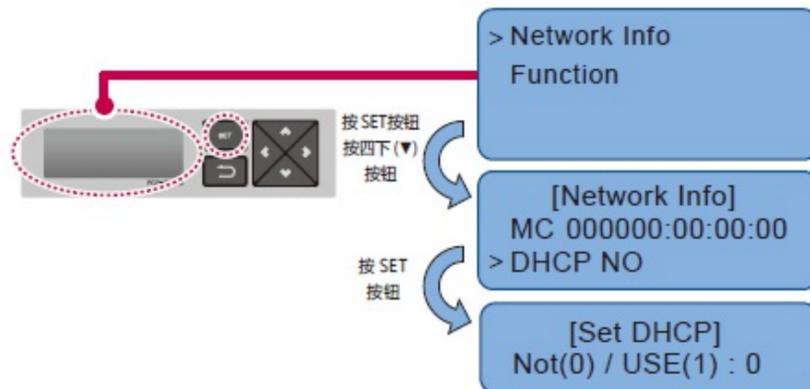


## 通过 DHCP 使用动态 IP

为了让用户能够通过 Web 使用产品的功能，可以给产品分配一个唯一的 IP 地址，或者使用动态 IP 设置。

下面说明如何设定动态 IP 地址。请按顺序操作。

1. 按产品的 [SET] 按钮。此时显示以下菜单界面。
  - 当您再次按 [SET] 按钮时，将显示 [Network Info] 设置界面。
  - 选择 DHCP 时，如果按 [SET] 按钮，您可以输入是否使用 DHCP 功能。



2. 使用 [▲]、[▼] 按钮设定是否使用 DHCP 功能。
  - 按 [▲] 按钮设定为使用 DHCP 功能，按 [▼] 按钮设定为不使用 DHCP 功能。
3. 要使用动态 IP，设定为使用 DHCP 功能。



### 小心

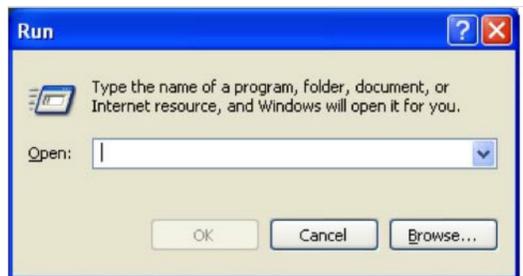
- 当使用动态 IP 时，正在使用的 IP 被返回到 DHCP 服务器，您可能无法访问。在这种情况下，您可以在的前部 LCD 中检查新设定的 IP 地址。

## 检查连接

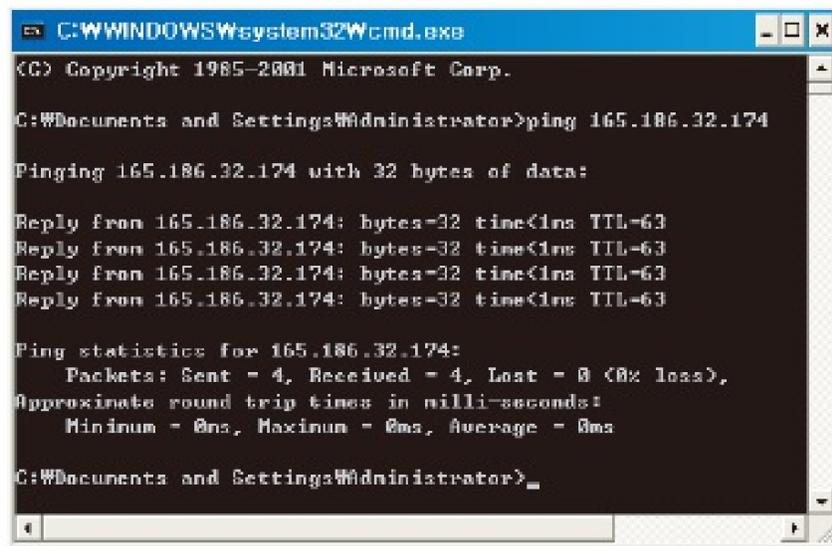
检查网络地址的设置是否正确。

您可以通过 PING 测试来检查是否可访问 产品。

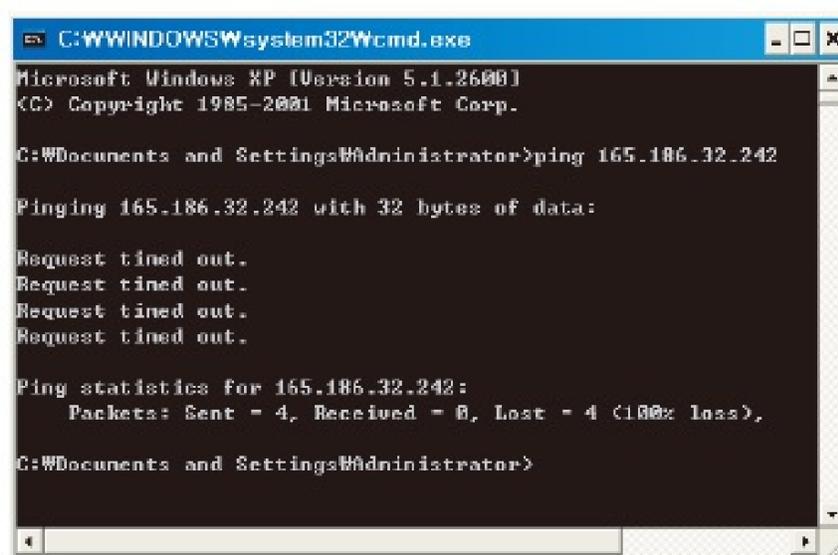
1. 通过 Windows 的 [开始]、[运行] 并输入 [cmd]，您可以打开如下 DOS 界面。



2. 在 DOS 界面中，您可以输入“ping”运行如下 PING 测试。



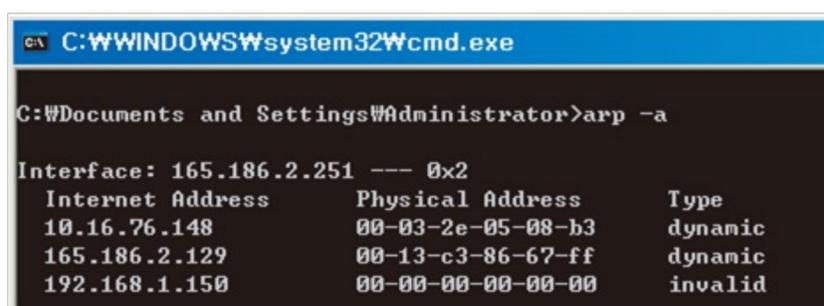
正确进行了网络设置时



没有正确进行网络设置时

**注意：当 PC 和 产品 一同连接在交换机或路由器中，但您无法访问 产品 时。**

- 如果刚刚更改了产品的 IP 设置，请复位产品的电源。
- 如果刚刚将 LAN 电缆连接到交换机或路由器，交换机或路由器可能需要一定的时间来识别产品。在这种情况下，关闭再打开交换机或路由器的电源可能会有所帮助。
- 检查以太网电缆的状态（LAN 电缆）。
- 检查 PC 的 ARP 表，看产品的 IP 地址是否正确对应于 MAC 地址。如果有多个 MAC 地址对应于一个 IP 地址，或者输出的地址不同于 PC 的 MAC 地址，可能存在一个 IP 地址与产品相同的主机。在这种情况下，应更改产品的 IP 地址或相应主机的 IP 地址。



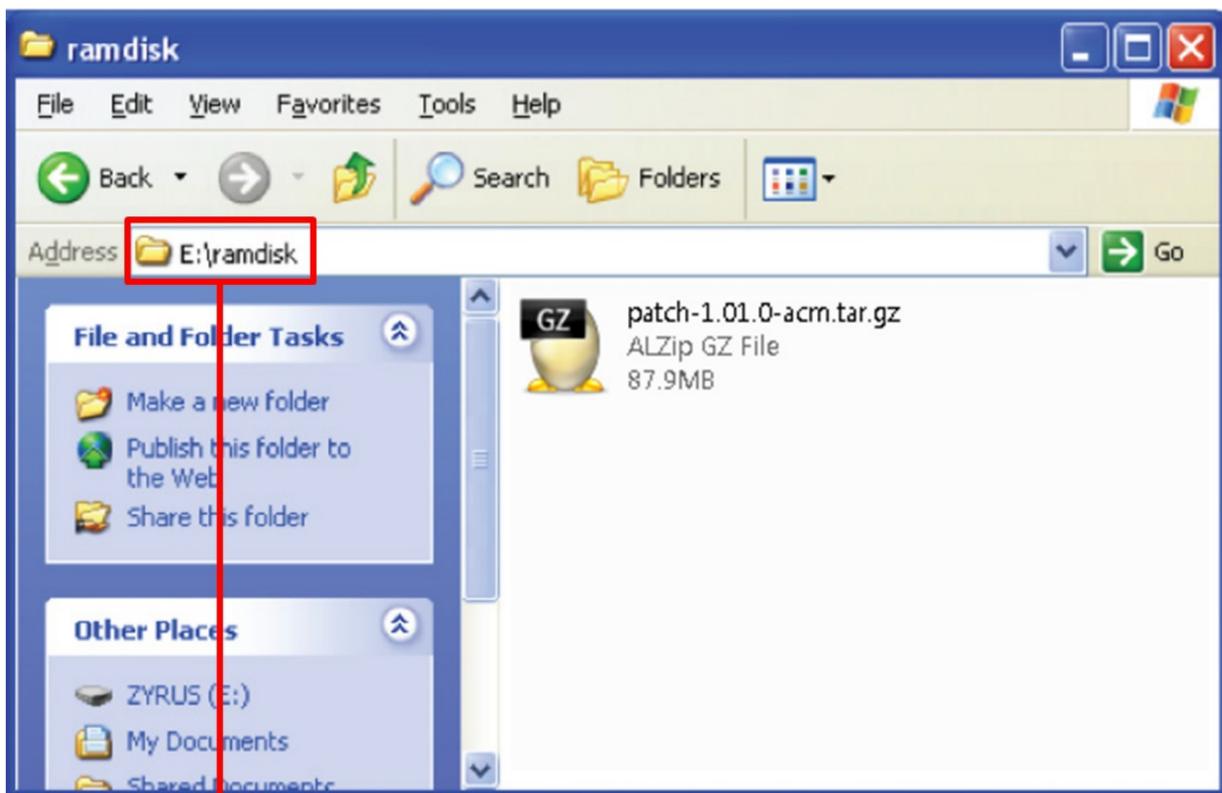
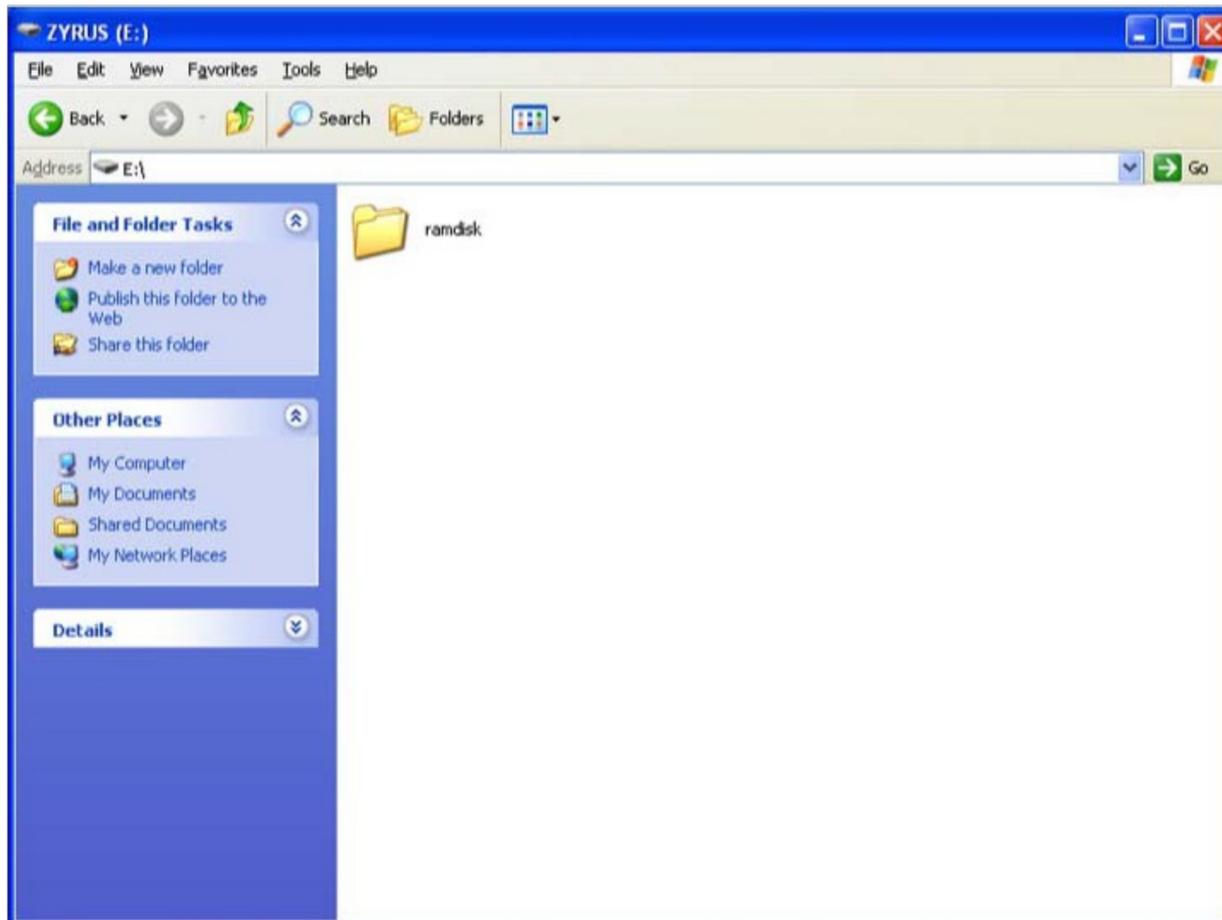
如何检查 ARP 表

## 软件更新

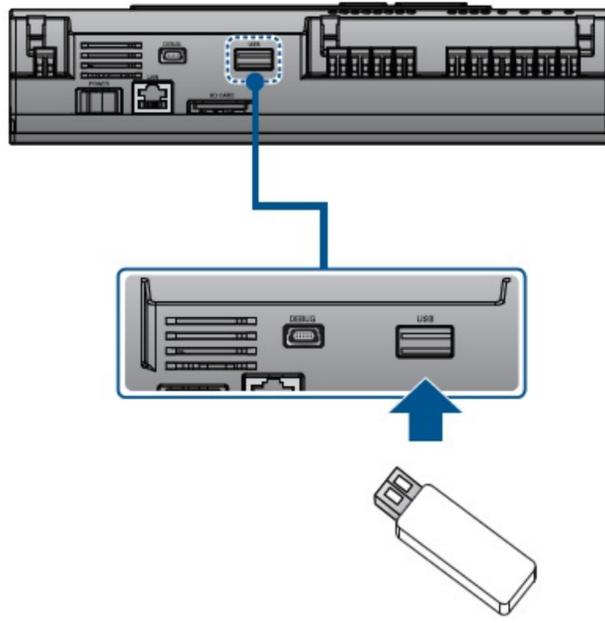
如需更新产品软件，必须由专业维修技师执行。可以使用 USB 存储器进行软件更新。按以下顺序操作。

1. 在 USB 存储器中创建“ramdisk”文件夹。
2. 将要更新的软件文件放在“ramdisk”文件夹中。
  - 此时只能放入一个软件文件。

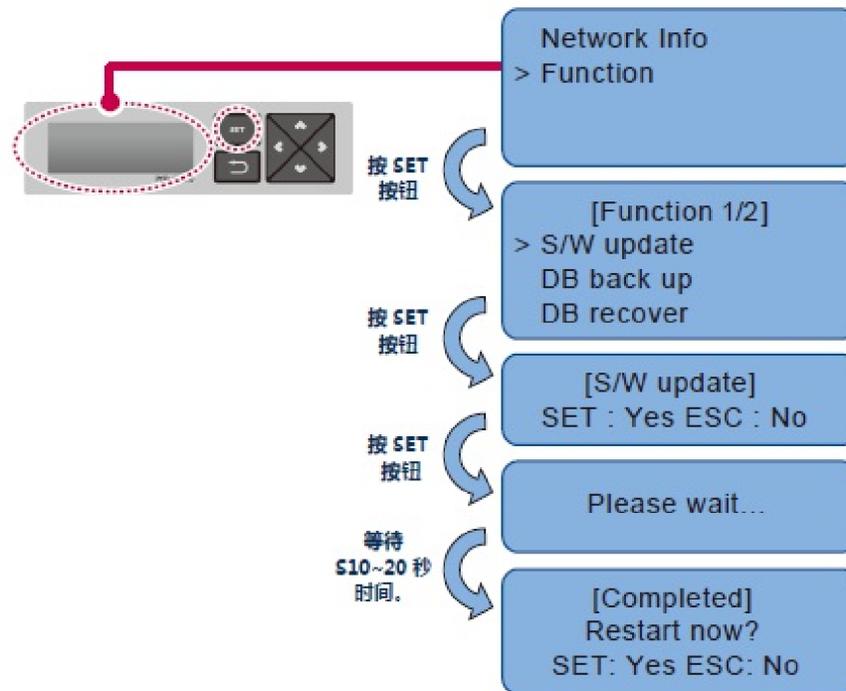
(可以从 LG Electronics System Air Conditioner 主页下载新版的软件文件。)



E:可以更改。



3. 按产品的 [SET] 按钮。
4. 选择 [Function] 菜单并按 [SET] 按钮。
5. 选择 [S/W update] 菜单并按 [SET] 按钮。
6. 要运行软件更新，再按一下 [SET] 按钮。
  - 软件更新运行时请等待。
7. 更新完成后，按 [SET] 按钮重启产品。
  - 如果您不立即重启，则在下次重启产品时应用更新。



### 小心

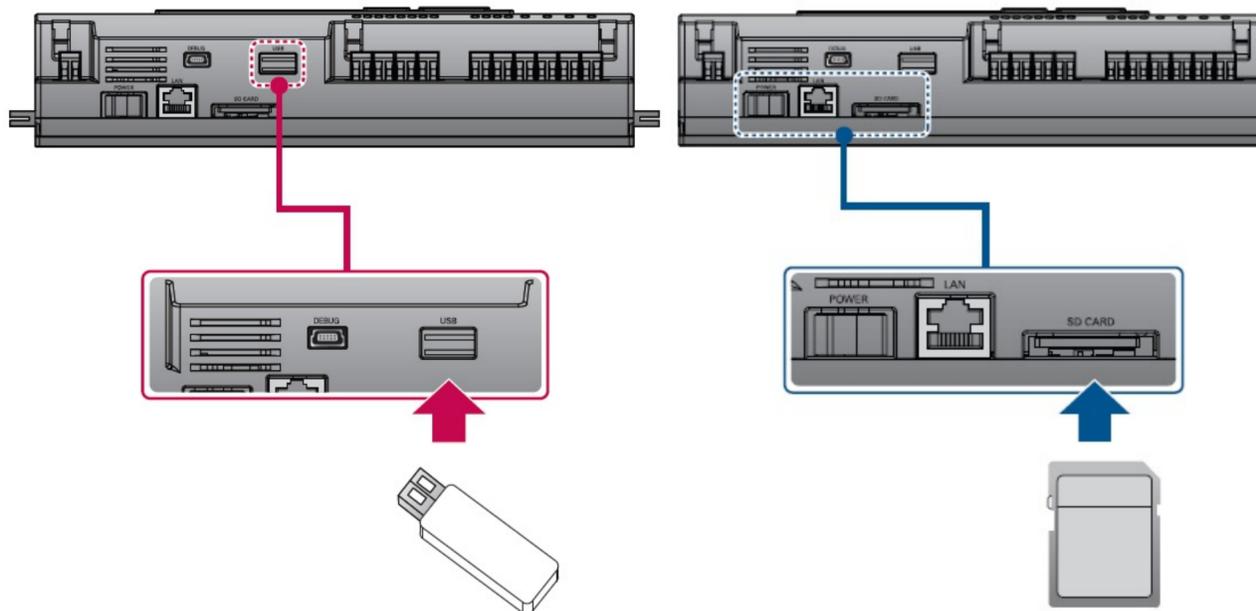
- 在软件更新过程中，或者屏幕上显示“Please wait… (Please wait…)”时，如果关闭产品的电源或拔出 USB 存储器，可能导致产品严重损坏。

## 数据库备份

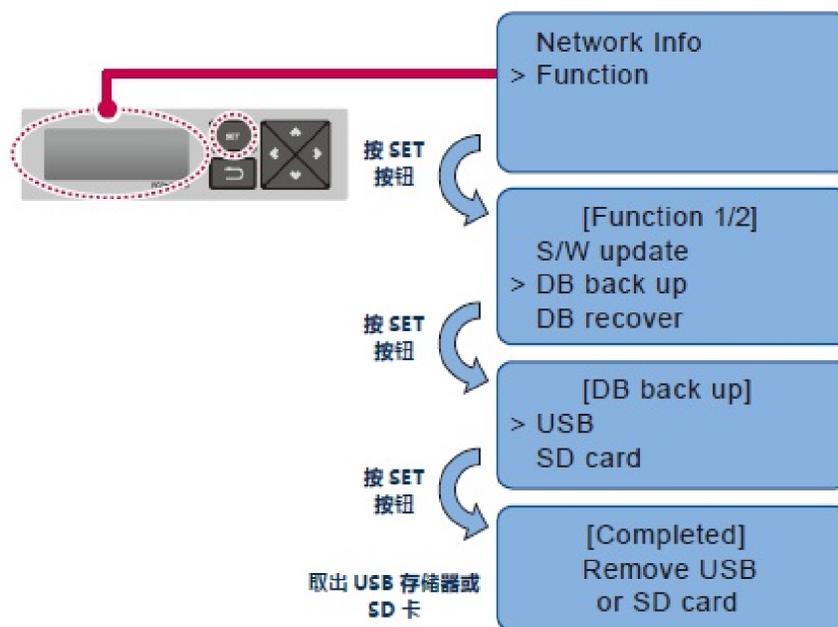
如果需要进行产品数据备份，必须由专业服务技师执行此操作。

可以使用 USB 存储器或 SD 卡进行数据备份。按以下顺序操作。

1. 将 USB 存储器或 SD 卡插入产品。



2. 按产品的 [SET] 按钮。
3. 选择 [Function] 菜单并按 [SET] 按钮。
4. 选择 [DB back up] 菜单并再次按 [SET] 按钮。
5. 选择 [USB] 或 [SD card] 并按 [SET] 按钮。
6. 完成备份后，取出 USB 存储器或 SD 卡。



### 小心

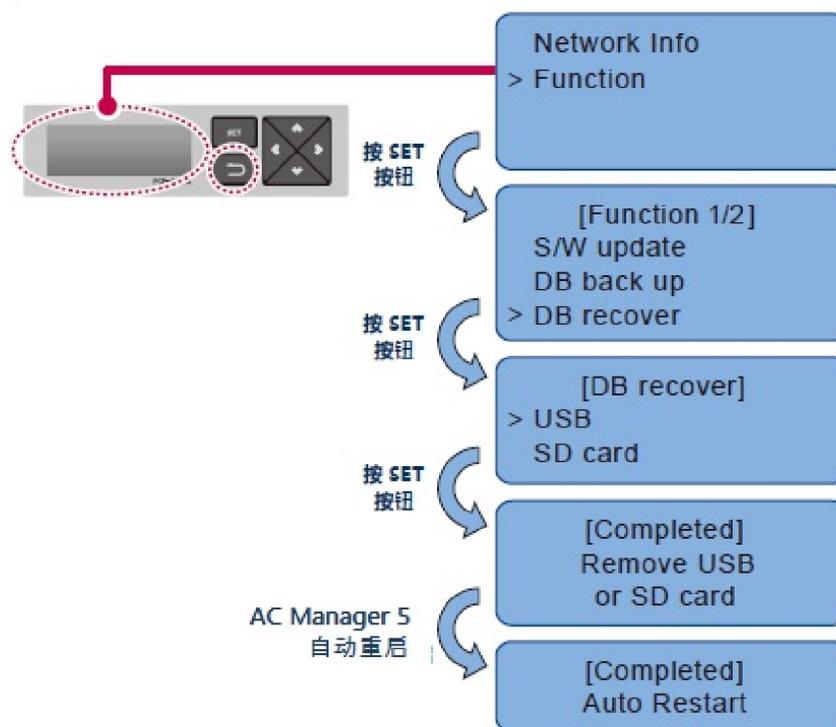
- 完成数据备份之前，如果关闭产品或取出 USB 存储器或 SD 卡，可能造成产品损坏。

## 数据库恢复

如果需要进行产品数据恢复，必须由专业服务技师执行此操作。

可以使用 USB 存储器或 SD 卡进行数据恢复。按以下顺序操作。

1. 将用于恢复的数据库文件保存在 USB 存储器或 SD 卡中。
  - 将文件保存在“db”文件夹中，如下所示。
2. 将 USB 存储器或 SD 卡插入产品。
3. 按产品的 [SET] 按钮。
4. 选择 [Function] 菜单并按 [SET] 按钮。
5. 选择 [DB recover] 菜单并再次按 [SET] 按钮。
6. 选择 [USB] 或 [SD card] 并按 [SET] 按钮。
7. 完成恢复后，取出 USB 存储器或 SD 卡。
  - 执行数据恢复时，自动重启。



### 小心

- 完成数据恢复之前，如果关闭产品或取出 USB 存储器或 SD 卡，可能造成产品损坏。



## 使用 (PC)

- 登录/退出
- 账户
- 仪表板
- 室内颗粒物监控

### [控制]

- 设备控制
- 时间表控制
- 互锁
- 持续运行时间限制
- 宾馆解决方案 (BACnet)

### [能源]

- 能量使用
- 能量导航
- 峰值/需量控制
- 能源单位成本

### [历史记录]

- 运行历史
- 能源导航历史
- 运行趋势
- 周期

### [设置]

- 设备设置
- 组设置
- 系统设置
- 网络设置
- 通知设置
- 管理员设置
- 其他用户设置
- 高级设置
- TMS设置
- BACnet/Modbus/Lonworks 设置
- 设置颗粒物监控



您可以通过在互联网浏览器地址窗口中输入IP地址访问该产品，以便使用各种中央控制功能

### 注意

- 对于 web 控件，建议使用 Chrome 浏览器浏览。
- 要访问 Web，需要设定 IP 地址。
- 在第一次访问时，您需要设置管理员帐户的密码。
- 每隔 90 天，就会弹出窗口以提示更改密码。  
有关个人信息保护和安全服务使用，请定期更改密码。

### 登录

登录方法如下。

1. 请在英特网地址窗口中输入产品的 IP 地址。
2. 在登录窗口中输入 ID 和密码，并单击 **[登录]** 按钮。

### 注销

退出方法如下。

1. 在菜单中，单击 **[账号]** 菜单。
2. 在 账号信息窗口中，单击 **[注销]** 按钮。

### 自动登录

一旦勾选自动登录选项，您将保持登录状态，直到删除浏览器 cookie 或选择注销。

- 注销后，自动登录将停用。
- 如果您通过某些浏览器提供的 InPrivate Browsing 使用互联网，则不能使用此选项，因为 cookie 未保存。



## 账户

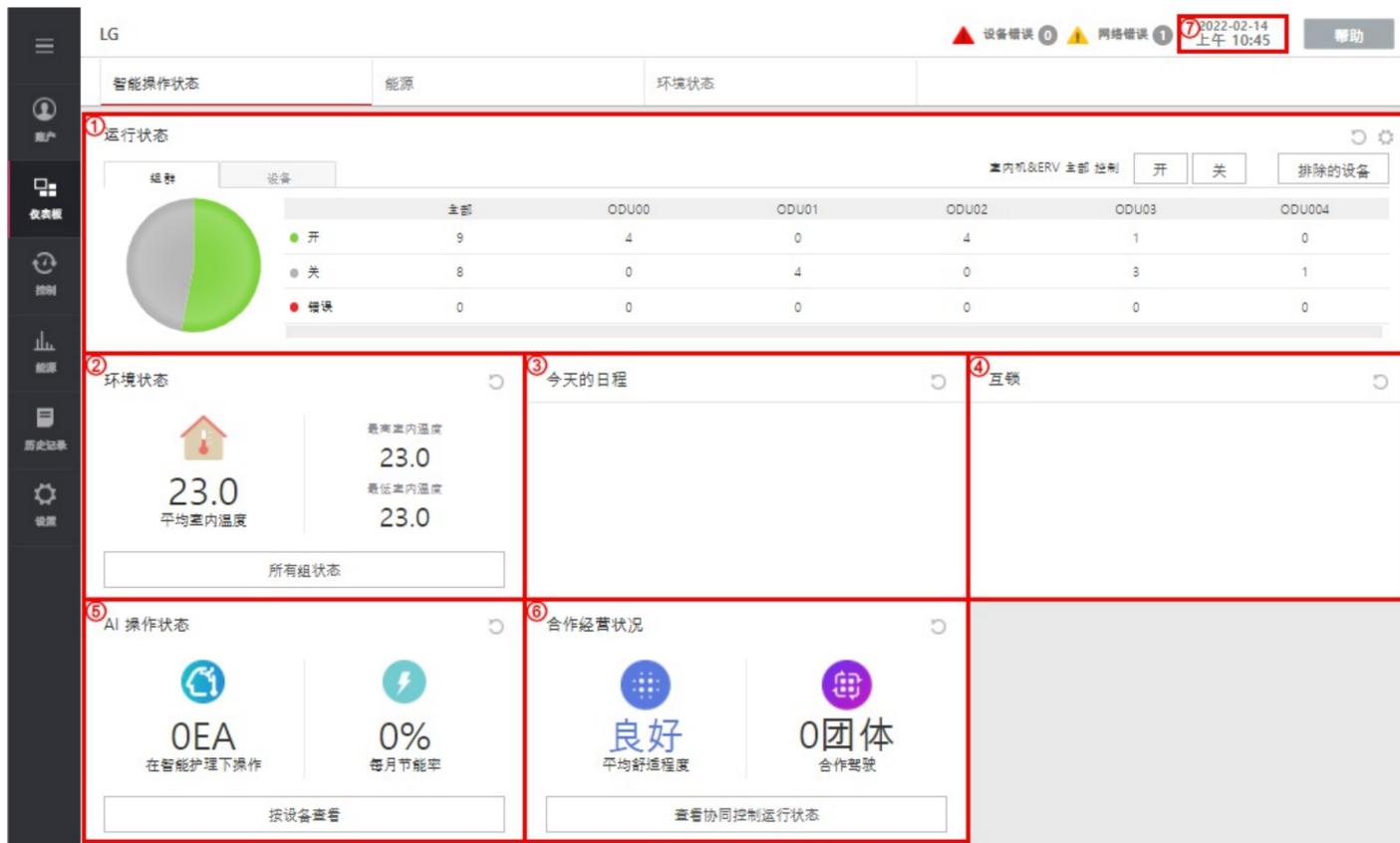
您可以查看当前登录帐户的信息。



您可以检查产品中所安装设备的当前运行状态和能源使用趋势。

## 运行状态

状态仪表板“当前运行状态”界面的构成和功能



编号	类别	说明
①	运行状态	查看产品中已安装设备的运行状态(开/关/错误) [组群] • 检查由用户指定的每个管理组的运行状态 [设备] • 查看用户指定的每个设备的运行状态 所有室内机和ERV开/关控制 • 所有室内机和ERV开/关控制 • 当异常设备注册时, 它将被排除在总体控制之外
②	环境状态	检查平均室内温度、最高/最低 室内温度和组
③	今日时间表	检查今日时间表列表
④	互锁	检查互锁列表
⑤	AI 操作状态	查看运行智能护理的设备数量和每月节能率 • 单击“按设备查看”, 可查看运行人工智能智能护理的室外机数量、每台设备的能源使用率以及节能和每月节能率
⑥	合作经营状况	协同控制小部件的使用 • 平均舒适程度 • 合作驾驶 • 查看协同控制运行状态
⑦	时间/日期显示	显示设备时间和日期

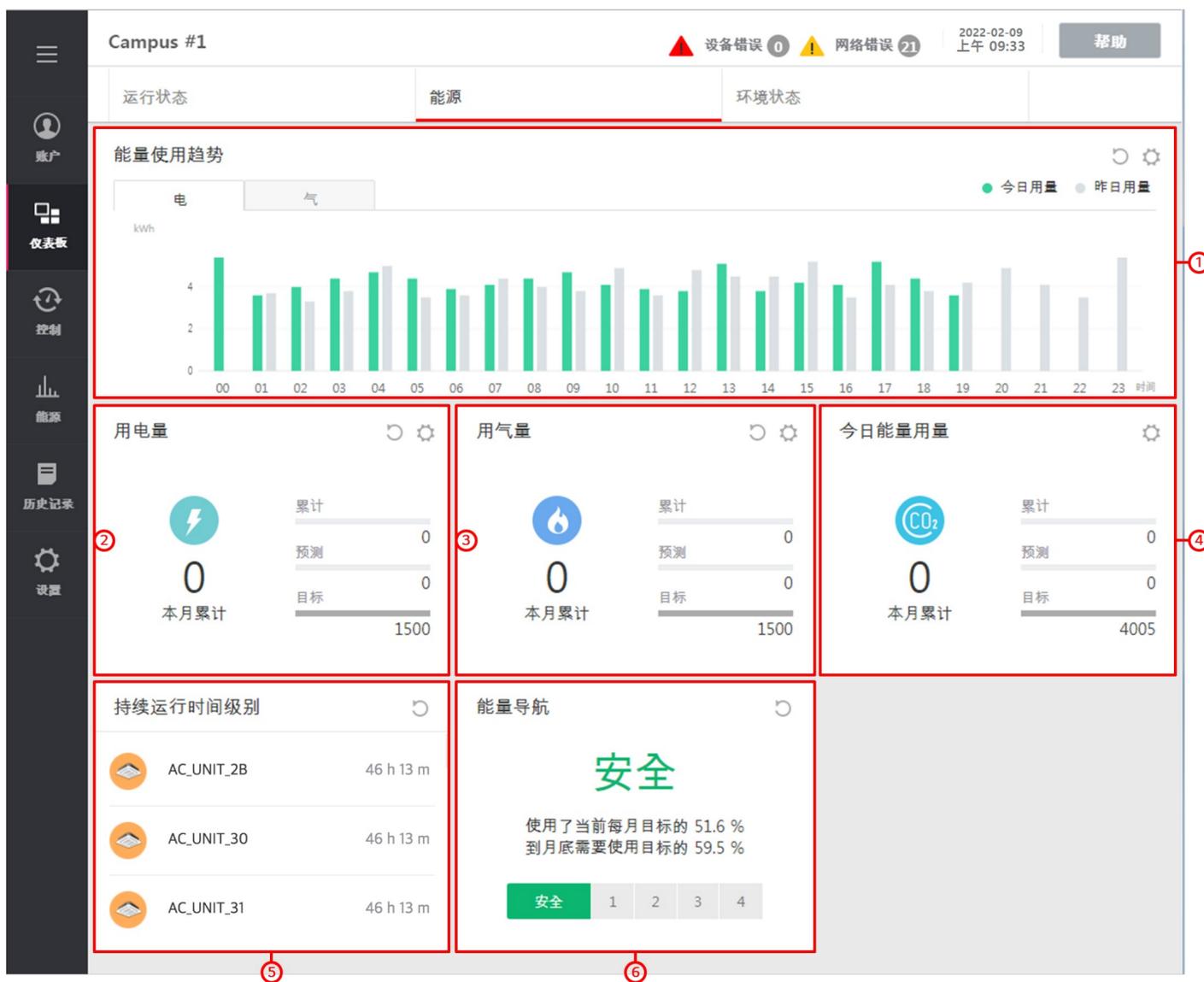
### [功能]

您可以通过仪表板的每个功能来选择检测设置。

➔ 运行状态功能

## 能源

说明仪表板“能源”选项卡构成和功能。



编号	类别	说明
①	能量使用趋势	检查每天、每月和每年的用电量/用气量趋势 月度/年度用电量趋势包含前一日的数据。
②	用电量	检查累计、预估和目标用电量
③	用气量	检查累计、预估和目标用气量
④	今日能量用量	检查累计、预估和目标综合能源使用量
⑤	持续运行时间级别	查看室内机连续运行时间排序
⑥	能量导航	查看能源导航状态

### [功能]

您可以通过仪表板的每个功能来选择检测设置。

- ➔ 能量使用趋势功能
- ➔ 用电量功能
- ➔ 用气量功能
- ➔ 今日能源用量功能

## 环境状态

介绍了仪表板环境状态标签的组成和功能



编号	类别	说明
①	二氧化碳监控	检查已注册ERV的 CO <sub>2</sub> 状态
②	舒适程度监控	查看已注册室内机的舒适度状态

③	微尘监测	查看已注册室内机，空气净化器的微尘状态 微尘分为 PM10、PM2.5 和 PM1.0，它表明每种状态和浓度
④	制冷剂泄漏报警状态	查看已注册室内机的制冷剂泄漏报警状态

## 运行状态功能

您可以设定要监测其运行状态的组。

1. 在左侧菜单选项卡中，单击 [仪表盘] > [运行状态] 菜单。
  - 显示当前运行状态界面。
2. 单击当前运行状态界面  按钮。
  - 显示设置界面。



3. 选择要监测其运行状态的组。
4. 选择完成后，单击 [应用] 按钮。

## 能量使用趋势组件

您可以选择监测能源用量趋势的采集标准。

1. 在左侧菜单选项卡中，单击 [仪表盘] > [能源] 菜单。
  - 显示能源界面。
2. 单击能源使用趋势界面的  按钮。
  - 显示设置界面。



3. 选择采集标准（按日/按月/每年）。
4. 选择完成后，单击 [应用] 按钮。

## 用电量功能

您可以选择用电量的采集标准。

1. 在左侧菜单选项卡中，单击 [仪表盘] > [能源] 菜单。
  - 显示能源界面。
2. 单击用电量界面的  按钮。
  - 显示设置界面。



3. 选择采集标准（按月/每年）。
4. 选择完成后，单击 [应用] 按钮。

## 用气量功能

您可以选择用气量的采集标准。

1. 在左侧菜单选项卡中，单击 [仪表板] > [能源] 菜单。
  - 显示能源界面。
2. 单击用气量界面的 ⚙️ 按钮。
  - 显示设置界面。



3. 选择采集标准（按月/每年）。
4. 选择完成后，单击 [应用] 按钮。

## 今日能源用量功能

您可以选择综合能源使用量的显示和获取标准。

1. 在左侧菜单选项卡中，单击 [仪表盘] > [能源] 菜单。
  - 显示能源界面。
2. 单击综合能源用量界面的  按钮。
  - 显示设置界面。



3. 选择显示标准 (kgCO<sub>2</sub>/kgoe) 和采集标准 (按月/每年)。
4. 选择完成后，单击 [应用] 按钮。

## 室内颗粒物监控

您可以查看与该产品相连的室内设备和空气净化组件的颗粒物状态。

### 连接到室内颗粒物监控

连接到室内颗粒物监控屏幕的方法如下。

1. 在互联网地址窗口中输入产品的 IP 地址。
2. 在登录窗口中输入 ID 和密码，单击 [室内颗粒物监控] 按钮。

### 室内颗粒物监控列表

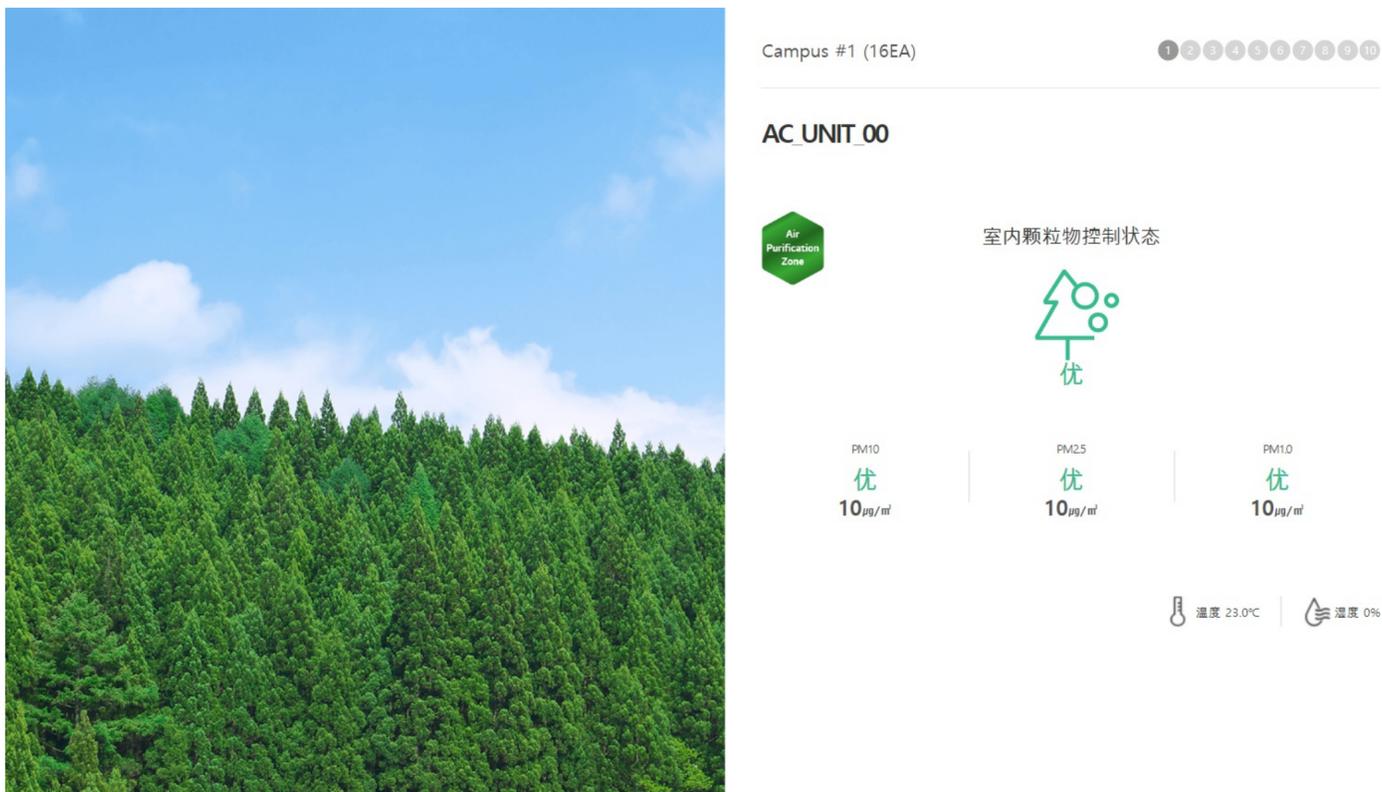
您可以查看当前室内颗粒物监控列表，并启动监控。



项目	描述
选择	选择“室内颗粒物监控”项目运行监控。
开始	启动选定的室内颗粒物监控任务。
取消	返回登录页面。

## 个人设备监控

下面介绍“个人设备监控”的选项和功能。





Campus #1 (16EA)



AC\_UNIT\_00

室内颗粒物控制状态



优

PM10  
优  
10 $\mu\text{g}/\text{m}^3$

PM25  
优  
10 $\mu\text{g}/\text{m}^3$

PM10  
优  
10 $\mu\text{g}/\text{m}^3$

温度 23.0°C | 湿度 0%

项目	描述
室内颗粒物管理状态	查看已注册的室内设备和空气净化器上的颗粒物状态。 显示整体洁净度，显示细粉尘 [pm10]、细颗粒物 [pm2.5]、超细颗粒物 [pm1.0] 的气味和密度状态。 • 气味信息仅显示在空气净化器上，且仅显示状态信息。
温度/湿度	显示当前温度和湿度 • 仅限室内设备
颗粒物管理区	显示 LG Whisen 生产的颗粒物控制区域 • 欲进行设置，可前往 [设置] > [设置颗粒物监控]。
图像	欲设置显示图像，可前往 [设置] > [设置颗粒物监控]。 • 最多可设置 10 张图像。

## 组监控

下面介绍设备组监控的选项和功能。





项目	描述
室内颗粒物控制状态统计	在环状图表中显示设备组整体洁净度的统计数据，并按项目显示信息
设备整体洁净度	显示设备组中每个设备的整体洁净度。
颗粒物管理区	显示 LG Whisen 生产的颗粒物控制区域 <ul style="list-style-type: none"> <li>欲进行设置，可前往 [设置] &gt; [设置颗粒物监控]。</li> </ul>

## 取消室内颗粒物监控

下面介绍如何取消室内颗粒物监控。

- 将鼠标指针放在屏幕上方。
  - (⊗) 按钮将出现在屏幕上方。
- 单击 ⊗ 按钮。
  - 您将进入室内颗粒物监控列表。



## 设备控制

说明控制设备及监测设备状态的方法。

### [界面和图标]

- 界面结构和功能
- 设备图标

### [控制窗口]

- 每个设备的控制
- 设备信息

### [控制/监测]

- 控制
- 监测

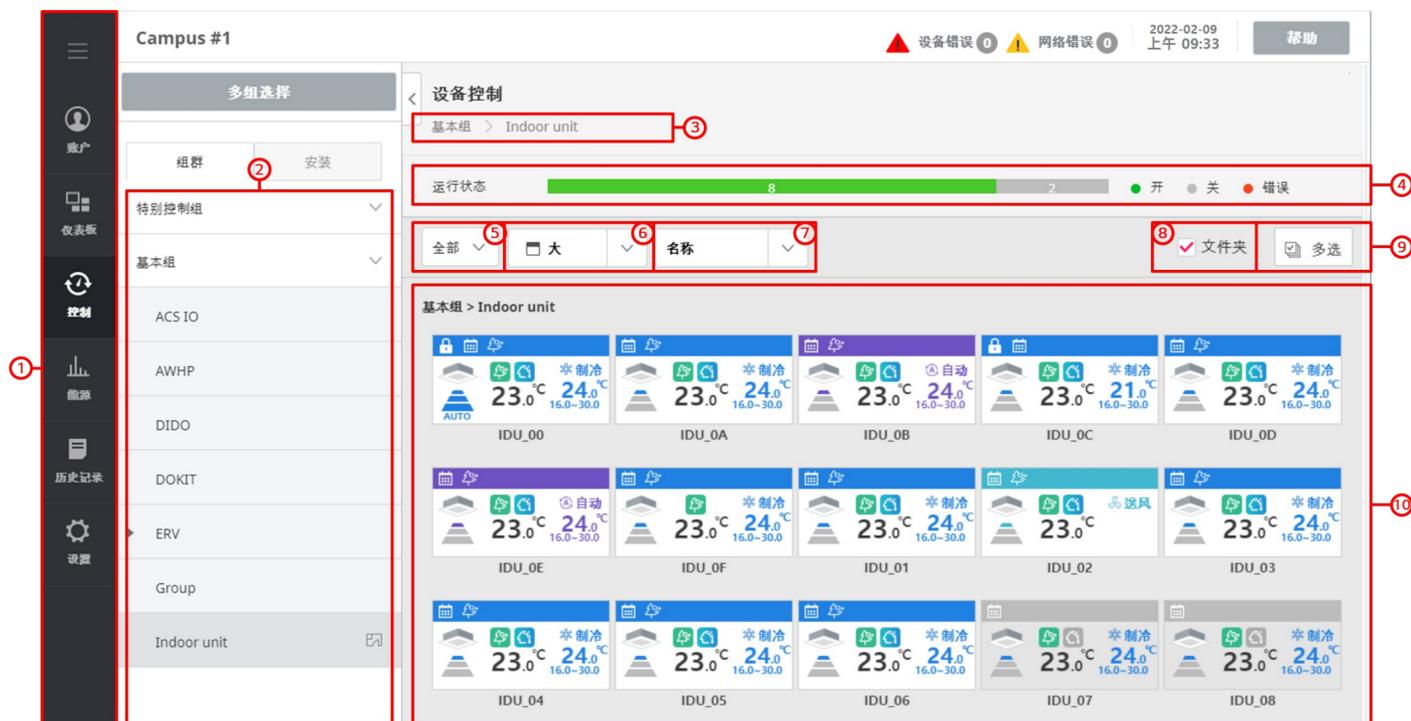
### [图纸]

- 编辑图纸
- 删除图纸

## 界面结构和功能

1. 在左侧菜单选项卡中，单击 [控制] > [设备控制] 菜单。

- 显示设备控制界面。



编号	类别	说明
①	主菜单	主菜单选项卡
②	组列表	检查控制组
③	组信息	组名称和组位置
④	运行状态	检查设备当前运行状态（开/关/错误）
⑤	过滤	设备类别和设备状态过滤
⑥	查看方法	选择设备图标的查看方法 □：大 ■：小 ≡：列表 图：图纸
⑦	排序设备	选择设备的排序方法 • 名称 • 设备/名称 • 设备/地址 • 运行
⑧	查看文件夹	选中时可检查当前组的下级组类别
⑨	多选	单击后可选择多个设备
⑩	设备区	检查在组中设定的设备信息

## 管理/安装组

1. 组群

- 为方便而设的管理组

2. 安装

- 提供实际连接设备的信息

## 设备图标

您可以检查带图标单独设备的重要信息。

### 1. 大图标



编号	类别	说明
①	设备状态指示图标	设备状态指示图标
②	设备图标	检查设备图标
③	风速	检查设备风速
④	颗粒物状态和智能护理状态	查看颗粒物状态和智能护理运行状态 蓝色 (好)、绿色 (正常)、橙色 (差)、红色 (非常差)
⑤	室内温度	检查当前温度
⑥	模式	检查模式
⑦	设定温度	检查设定温度
⑧	设置温度范围	检查上限/下限温度
⑨	设备名称	检查设备名称

### 设备状态指示图标

图标	说明
	锁定
	时间表
	占用
	峰值控制
	滤网更换报警 / 预过滤器更换提示 / 微尘过滤器更换提示
	机油更换报警
	空气净化
	空气质量传感器
	Multi V 连锁节能控制
	UVnano
	需要 UVnano LED 检测
	合作驾驶
	群控 (从机)

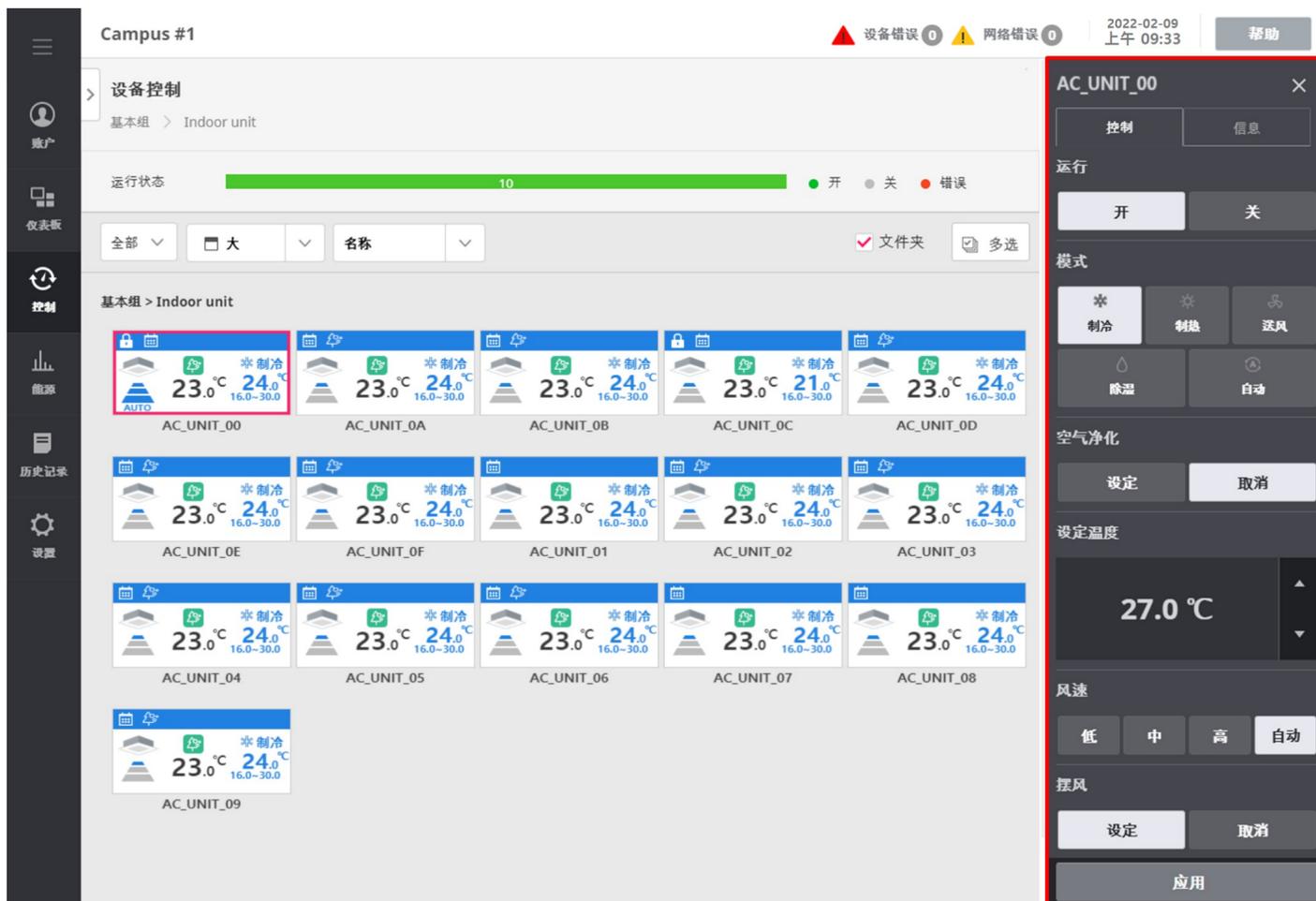
### 2. 小图标

- 检查设备图标/运行状态/模式/设备名称

### 3. 查看列表

-组中设备属性的指示 (设备名称、运行状态、运行模式、当前温度、设定温度、错误代码、ACP 地址、室外机地址、设备地址等)

在设备区中选择了设备后，会在右侧生成一个如下图所示的控制窗口，您可以通过控制窗口控制所选设备。



### 注意

- 因设备设计标准的不同会造成控制范围的不同，详细控制范围请参考相应设备的技术手册。
- ACS I/O 设备根据设置会有不同的控制工具名称、单位、上限、下限等。

### 可控制设备清单

- ➔ 室外机
- ➔ 室内机
  - 室内机 (2Set)
- ➔ ERV
- ➔ ERV DX
- ➔ 可控制设备清单
- ➔ Heating
- ➔ AHU
- ➔ 涡旋式冷水机
- ➔ 螺杆式冷水机
- ➔ 离心式冷水机
- ➔ 吸收式冷水机
- ➔ 涡旋式冷水机Mini
- ➔ DOKIT
- ➔ DO
- ➔ AO
- ➔ 空气净化器

室外机



类别	说明
室外机容量控制	• 按 [▼] 按钮设置功率控制运行率 (%)
智能负载控制 (SLC) 设置	• 按 [▲]/[▼] 按钮设置智能加载控制等级(0 等级、1 等级、2 等级、3 等级、4 等级)
低噪音模式	• [设定/取消] 按钮：室外机低噪音运行设置/取消
除霜模式	• 按 [▲]/[▼] 按钮设置室外机除霜模式等级(0 等级、1 等级、2 等级、3 等级)
室外机冷媒低噪音运行模式	• 按 [▲]/[▼] 按钮设置室外机冷媒降噪等级(0 等级、1 等级、2 等级)

注意

在中央控制器中，如果使用“室外机低噪音运行”，则在已安装的室内机线控器中，您需要设置 [安装程序设置] > [低噪音模式] 为“ODU”。



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[制冷] 按钮：切换到制冷模式</li> <li>[制热] 按钮：切换到制热模式</li> <li>[送风] 按钮：切换到送风模式。选择 送风时，设定温度不会应用到设备</li> <li>[除湿] 按钮：在雨季或空气湿度较高时去除湿气。选择 Dehumidification (除湿) 时，设定温度不会应用到设备</li> <li>[自动] 按钮：切换到自动模式</li> </ul>
空气净化	<p>空气净化控制只用于支持室内机的空气净化功能</p> <ul style="list-style-type: none"> <li>空气净化单运行                             <ol style="list-style-type: none"> <li>室内机停止状态下，如果空气净化为 [设定]，则空气净化仅伴随着送风(自动风)单运行(在空气净化单运行期间，模式锁和风量锁未被选择)</li> <li>在空气净化单运行期间，如果运行状态为 [关] 或空气净化状态为 [取消]，则空气净化被恢复到先前的模式和先前的风量(但在同时使用模式或风量控制时，采用已控制的模式和风量进行控制)</li> </ol> </li> <li>空气净化附加运行                             <ol style="list-style-type: none"> <li>室内机停止状态下，如果运行状态为 [开] 而且空气净化为 [设定]，则在当前模式下附加运行空气净化</li> <li>室内机运行状态下，如果空气净化状态为 [设定]，则在当前模式下附加运行空气净化</li> <li>附加运行空气净化期间，如果运行状态为 [关]，则运行停止</li> <li>附加运行空气净化期间，如果空气净化为 [取消]，则空气净化被取消</li> </ol> </li> </ul>
设定温度	按 [▲]/[▼] 按钮设定所需温度
风速	<p>设置送风风速</p> <ul style="list-style-type: none"> <li>[低] 按钮：将风速设定为慢速</li> <li>[中] 按钮：将风速设定为正常</li> <li>[高] 按钮：将风速设定为快速</li> </ul>

	<ul style="list-style-type: none"> <li>• [自动] 按钮：[低]-[中]-[高] 自动切换</li> </ul>
摆风	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：启动/停止风扇的自动旋转功能</li> </ul>
设置温度范围	当用户单独设定所需温度时，所需温度不能设定到指定温度范围之外
人体检测模式 - 开/关节能	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 开/关节能设置/取消</li> </ul>
人体检测模式 - 温度节能	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 温度节能设置/取消</li> </ul>
人体检测模式 - 空闲时间设置（分钟）	仅用于支持室内机的人体感测，人体感测控制 将空决策时间设置为 5、10、15、30、60 或 90 分钟。
人体检测模式 - 直接风	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 直接风设置/取消</li> </ul>
人体检测模式 - 间接风	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 间接风设置/取消</li> </ul>
舒适节能	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：舒适节能功能设置/取消</li> <li>• 可以按 [▲]/[▼] 按钮设置等级</li> </ul> 仅当室内机处于制冷运行时，才可能有舒适节能控制
预过滤器更换提示	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果出现预过滤器更换提示，该按钮可取消预过滤器更换提示</li> </ul>
微尘过滤器更换提示	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果出现微尘过滤器更换提示，该按钮可取消微尘过滤器更换提示</li> </ul>
锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>
模式锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制模式设置</li> </ul>
风速锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制风速设置</li> </ul>
温度锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制温度设置</li> </ul>
自动模式转换	当室内温度超过上限温度时，则自动切换到制冷运行；如果低于下限温度，则自动切换到制热运行；如果在上限温度和下限之间，则仅送风运行(仅支持具有同时制冷/制热功能的室外机) <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消自动模式转换</li> </ul>
下限/上限温度	自动模式转换下限温度和上限温度设置
自动模式下的风速	选择自动模式转换运行过程中室内机的设定风速值 <ul style="list-style-type: none"> <li>• [低] 按钮：将风速设定为慢速</li> <li>• [中] 按钮：将风速设定为正常</li> <li>• [高] 按钮：将风速设定为快速</li> <li>• [自动] 按钮：[低]-[中]-[高] 自动切换</li> </ul>
维持	将设备安装所在位置的温度维持在特定范围之内的功能（仅支持热回收室外机） <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消维持</li> </ul>
制冷初始温度设定	按 [▲]/[▼] 按钮设定制冷运行开始温度(21°C~40°C)
制热初始温度设定	按 [▲]/[▼] 按钮设定制热运行开始温度(1°C~20°C)
组合制热模式设定	(仅支持特定室内机和室外机) [设定/取消] 按钮: 激活/停用基于室外温度的控制。
模式	设置了组合加热控制时才能激活。 <ul style="list-style-type: none"> <li>• [自动] 按钮: 将控制模式设为自动</li> <li>• [手动] 按钮: 将控制模式设为手动</li> </ul> 您可以激活/停用对热泵和加热器的控制。无法同时停用对热泵和加热器的控制
温度1	只能在自动模式下激活。 您可以设置室外温度为温度 1。热泵和加热器根据设置的温度自动运行。 按 [▲]/[▼] 设置温度。1 (-23°C-16°C)。
温度2	只能在自动模式下激活。 您可以设置室外温度为温度 2。热泵和加热器根据设置的温度自动运行。 按 [▲]/[▼] 设置温度。2 (-23°C-51°C)。
热泵	只能在手动模式下激活。 [设定/取消] 按钮: 激活/停用热泵控制。
加热器	只能在手动模式下激活。 [设定/取消] 按钮: 激活/停用加热器控制。
智能护理	仅当连接 AI 控制器时激活 [设置/清除] 按钮：激活/停用智能护理
协同控制	仅当连接 AI 控制器时激活 [设置/清除] 按钮：激活/停用协同控制
UVnano	仅适用于UVnano模式-支持室内机，UVnano模式-控制 [设置/清除] 按钮: 激活/停用 UVnano

## 室内机 (2Set)

当在 [设置] > [安装] 下使用了支持室外机/室内机/线控器的 2Set 功能时，如果 ACP 的 2Set 自动模式被选择为 室内机，则室内机的 2Set 控制窗口就出现在下列屏幕的左侧。



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[制冷] 按钮：切换到制冷模式</li> <li>[制热] 按钮：切换到制热模式</li> <li>[送风] 按钮：切换到送风模式。选择 送风时，设定温度不会应用到设备</li> <li>[除湿] 按钮：在雨季或空气湿度较高时去除湿气。选择 Dehumidification (除湿) 时，设定温度不会应用到设备</li> <li>[自动] 按钮：切换到自动模式</li> </ul>
空气净化	<p>空气净化控制只用于支持室内机的空气净化功能</p> <ul style="list-style-type: none"> <li>空气净化单运行                             <ol style="list-style-type: none"> <li>室内机停止状态下，如果空气净化为 [设定]，则空气净化仅伴随着送风(自动风)单运行(在空气净化单运行期间，模式锁和风量锁未被选择)</li> <li>在空气净化单运行期间，如果运行状态为 [关] 或空气净化状态为 [取消]，则空气净化被恢复到先前的模式和先前的风量(但在同时使用模式或风量控制时，采用已控制的模式和风量进行控制)</li> </ol> </li> <li>空气净化附加运行                             <ol style="list-style-type: none"> <li>室内机停止状态下，如果运行状态为 [开] 而且空气净化为 [设定]，则在当前模式下附加运行空气净化</li> <li>室内机运行状态下，如果空气净化状态为 [设定]，则在当前模式下附加运行空气净化</li> <li>附加运行空气净化期间，如果运行状态为 [关]，则运行停止</li> <li>附加运行空气净化期间，如果空气净化为 [取消]，则空气净化被取消</li> </ol> </li> </ul>
占用状态	<p>设置安装室内机的空间为已占用或空的功能</p> <ul style="list-style-type: none"> <li>[占用] 按钮：已占用设置</li> <li>[未占用] 按钮：空设置</li> </ul>
制冷设置温度	按 [▲]/[▼] 按钮设置制冷设置温度
制热设置温度	按 [▲]/[▼] 按钮设置制热设置温度
制冷下限/上限温度	制冷下限温度和上限温度设置
制热下限/上限温度	制热下限温度和上限温度设置
	设置送风风速

风速	<ul style="list-style-type: none"> <li>• [低] 按钮：将风速设定为慢速</li> <li>• [中] 按钮：将风速设定为正常</li> <li>• [高] 按钮：将风速设定为快速</li> <li>• [自动] 按钮：[低]-[中]-[高] 自动切换</li> </ul>
摆风	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：启动/停止风扇的自动旋转功能</li> </ul>
人体检测模式 - 开/关节能	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 开/关节能设置/取消</li> </ul>
人体检测模式 - 温度节能	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 温度节能设置/取消</li> </ul>
人体检测模式 - 空闲时间设置（分钟）	仅用于支持室内机的人体感测，人体感测控制 将空决策时间设置为 5、10、15、30、60 或 90 分钟。
人体检测模式 - 直接风	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 直接风设置/取消</li> </ul>
人体检测模式 - 间接风	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 间接风设置/取消</li> </ul>
舒适节能	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：舒适节能功能设置/取消</li> <li>• 可以按 [▲]/[▼] 按钮设置等级</li> </ul> 仅当室内机处于制冷运行时，才可能有舒适节能控制
预过滤器更换提示	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果出现预过滤器更换提示，该按钮可取消预过滤器更换提示</li> </ul>
微尘过滤器更换提示	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果出现微尘过滤器更换提示，该按钮可取消微尘过滤器更换提示</li> </ul>
锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控制器控制任何功能</li> </ul>
模式锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控制器来控制模式设置</li> </ul>
风速锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控制器来控制风速设置</li> </ul>
温度锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控制器来控制温度设置</li> </ul>
组合制热模式设定	(仅支持特定室内机和室外机) [设定/取消] 按钮：激活/停用基于室外温度的控制。
模式	设置了组合加热控制时才能激活。 <ul style="list-style-type: none"> <li>• [自动] 按钮：将控制模式设为自动。</li> <li>• [手动] 按钮：将控制模式设为手动。</li> </ul> 您可以激活/停用对热泵和加热器的控制。无法同时停用对热泵和加热器的控制
温度1	只能在自动模式下激活。 您可以设置室外温度为温度 1。热泵和加热器根据设置的温度自动运行。 <ul style="list-style-type: none"> <li>• 按 [▲]/[▼] 设置温度。1 (-23°C-16°C)。</li> </ul>
温度2	只能在自动模式下激活。 您可以设置室外温度为温度 2。热泵和加热器根据设置的温度自动运行。 <ul style="list-style-type: none"> <li>• 按 [▲]/[▼] 设置温度。2 (-23°C-51°C)。</li> </ul>
热泵	只能在手动模式下激活。 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：激活/停用热泵控制。</li> </ul>
加热器	只能在手动模式下激活。 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：激活/停用加热器控制。</li> </ul>
智能护理	仅当连接 AI 控制器时激活 [设置/清除] 按钮：激活/停用智能护理
协同控制	仅当连接 AI 控制器时激活 [设置/清除] 按钮：激活/停用协同控制
UVnano	仅适用于UVnano模式-支持室内机，UVnano模式-控制 [设置/清除] 按钮：激活/停用 UVnano

## 注意

### 2set 自动模式

- 仅当室内/外机支持2Set自动模式时，相应的功能才能被使用。（有关每个设备是否支持 2Set，请参考相应设备的手册。）
- 超控是一种可以从线控制器设置的功能。有关超控功能的相关内容，请参考线控制器手册。
- 在 2Set 自动模式下，连同自动图标、产品实际运行模式（制冷、制热）状态一起显示。

### 占用状态

- 如果占用状态传感器与室内机相连，则中央控制的设置优先于相应的占用状态传感器。有关占用状态传感器的相关内容，请参考室内机或干节点的手册。
- 当已占用设置被改变时，自动设置制冷设定温度和制热设定温度都是最近运行的时间表中的制冷设定温度和制热设定温度，并且，如果没有以前运行的时间表，则它被设置到默认值。

(示例)

09:00 - 12:00: 已占用 / 制冷设定温度 27°C / 制热设定温度 18°C

12:00 - 13:00: 已占用 / 制冷设定温度 29°C / 制热设定温度 16°C

13:00 - 15:00: 已占用 / 制冷设定温度 26°C / 制热设定温度 19°C

如果在 15:00 以后没有时间表为空，则制冷设定温度为 29°C，制热设定温度为 16°C；并且，如果已占用，则制冷设定温度变为成 26°C，并且制热设定温度变为成 19°C。



类别	说明
运行	<ul style="list-style-type: none"> <li>• [开] 按钮：开始设备运行</li> <li>• [关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>• [正常] 按钮：不经过换热器对排出的空气进行通风</li> <li>• [换热器] 按钮：通过换热器对送风/排风进行通风</li> <li>• [自动] 按钮：切换到自动模式</li> </ul>
风速	<p>设置送风风速</p> <ul style="list-style-type: none"> <li>• [低] 按钮：将风速设定为慢速</li> <li>• [高] 按钮：将风速设定为快速</li> <li>• [超强] 按钮：将风速设定为最高速度</li> <li>• [自动] 按钮：[低]-[高]-[超强] 自动切换 <ul style="list-style-type: none"> <li>- 用户无法设置</li> <li>- 当设定“节电/快速”后，[自动] 风速被选中</li> <li>- 当清除“节电/快速”后，[高] 风速被选中</li> <li>- 在[自动] 运行过程中，当选择了 [低]/[高]/[超强] 时，运行中的“节电/快速”功能会被清除</li> </ul> </li> </ul>
滤网更换报警	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果滤网清洗提示，它将取消滤网清洗提示</li> </ul>
附加功能	<ul style="list-style-type: none"> <li>• 快速 [设定/取消] 按钮：设定/取消 快速功能（选择“快速”功能时，节能功能会被清除）</li> <li>• 节电 [设定/取消] 按钮：设定/取消 节能功能（选择节能功能时，“快速”功能会被清除）</li> <li>• 加热器 [设定/取消] 按钮：设定/取消 加热器功能</li> </ul>
夜间风冷(NTFC)	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设置/清除夜间风冷功能，即：当夜间室外温度低于设定温度时直接利用室外空气制冷。</li> </ul>
锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>



类别	说明
运行	<ul style="list-style-type: none"> <li>• [开] 按钮：开始设备运行</li> <li>• [关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>• [正常] 按钮：不经过换热器对排出的空气进行通风</li> <li>• [换热器] 按钮：通过换热器对送风/排风进行通风</li> <li>• [自动] 按钮：切换到自动模式</li> </ul>
设定温度	按 [▲]/[▼] 按钮设定所需温度
风速	设置送风风速 <ul style="list-style-type: none"> <li>• [低] 按钮：将风速设定为慢速</li> <li>• [高] 按钮：将风速设定为快速</li> <li>• [超强] 按钮：将风速设定为最高速度</li> <li>• [自动] 按钮：[低]-[高]-[超强] 自动切换               <ul style="list-style-type: none"> <li>- 用户无法设置</li> <li>- 当设定“节电/快速”后，[自动] 风速被选中</li> <li>- 当清除“节电/快速”后，[高] 风速被选中</li> <li>- 在[自动] 运行过程中，当选择了 [低]/[高]/[超强] 时，运行中的“节电/快速”功能会被清除</li> </ul> </li> </ul>
联动空调	<ul style="list-style-type: none"> <li>• [制冷] 按钮：在制冷模式下运行ERV DX</li> <li>• [自动] 按钮：在自动模式下运行ERV DX</li> <li>• [制热] 按钮：在制热模式下运行ERV DX</li> <li>• [关] 按钮：停止ERV DX的空调功能</li> </ul>
设置温度范围	当用户单独设定所需温度时，所需温度不能设定到指定温度范围之外
滤网更换报警	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果滤网清洗提示，它将取消滤网清洗提示</li> </ul>
附加功能	<ul style="list-style-type: none"> <li>• 快速 [设定/取消] 按钮：设定/取消快速功能（选择“快速”功能时，节能功能会被清除）</li> <li>• 节电 [设定/取消] 按钮：设定/取消节能功能（选择节能功能时，“快速”功能会被清除）</li> <li>• 加热器 [设定/取消] 按钮：设定/取消加热器功能</li> <li>• 加湿 [设定] 按钮：设定加湿功能（仅用于空调制热模式）</li> </ul>
夜间风冷(NTFC)	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设置/清除夜间风冷功能，即：当夜间室外温度低于设定温度时直接利用室外空气制冷。</li> </ul>
锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>
模式锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制模式设置</li> </ul>
风速锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制风速设置</li> </ul>
温度锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制温度设置</li> </ul>
夜间风冷锁	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：在线控器上设置/清除夜间风冷定时</li> </ul>

可控制设备清单



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[正常] 按钮：不经过换热器对排出的空气进行通风</li> <li>[换热器] 按钮：通过换热器对送风/排风进行通风</li> <li>[自动] 按钮：切换到自动模式</li> </ul>
风速	设置送风风速 <ul style="list-style-type: none"> <li>[低] 按钮：将风速设定为慢速</li> <li>[高] 按钮：将风速设定为快速</li> <li>[超强] 按钮：将风速设定为最高速度</li> <li>[自动] 按钮：[低]-[高]-[超强] 自动切换               <ul style="list-style-type: none"> <li>- 用户无法设置</li> <li>- 当设定“节电/快速”后，[自动] 风速被选中</li> <li>- 当清除“节电/快速”后，[高] 风速被选中</li> <li>- 在[自动] 运行过程中，当选择了 [低]/[高]/[超强] 时，运行中的“节电/快速”功能会被清除</li> </ul> </li> </ul>
滤网更换报警	<ul style="list-style-type: none"> <li>[取消] 按钮：如果滤网清洗提示，它将取消滤网清洗提示</li> </ul>
附加功能	<ul style="list-style-type: none"> <li>快速 [设定/取消] 按钮：设定/取消 快速功能（选择“快速”功能时，节能功能会被清除）</li> <li>节电 [设定/取消] 按钮：设定/取消 节能功能（选择节能功能时，“快速”功能会被清除）</li> <li>加热器 [设定/取消] 按钮：设定/取消 加热器功能</li> </ul>
夜间风冷(NTFC)	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设置/清除夜间风冷功能，即：当夜间室外温度低于设定温度时直接利用室外空气制冷。</li> </ul>
锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>

Heating



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[制冷] 按钮：切换到制冷模式</li> <li>[制热] 按钮：切换到制热模式</li> <li>[自动] 按钮：切换到自动模式</li> </ul>
进风（水）温度/出风（水）温度	按 [▲]/[▼] 按钮设定进风（水）温度/出风（水）温度 显示取决于 [设置]-[设备设置] 中选择的设定温度 <ul style="list-style-type: none"> <li>选择 [进水/出水] 时，显示为进水温度/出水温度</li> <li>选择 [室内] 时，显示为空气温度</li> </ul>
热水	<ul style="list-style-type: none"> <li>[开] 按钮：开始热水运行                             <ul style="list-style-type: none"> <li>- 如果当设备处于自动/制冷模式时运行热水功能，内容显示区的图标中就会显示相应模式和热水</li> <li>- 如果设备停止时运行热水功能，内容显示区中的此图标就会被启用并显示热水</li> </ul> </li> <li>[关] 按钮：停止热水运行</li> </ul>
热水温度	按 [▲]/[▼] 按钮设定热水温度
锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>

AHU



类别	说明
查看详情	按 [查看详细] 按钮查看详情信息(但, 不包括手机)
运行	<ul style="list-style-type: none"> <li>[开] 按钮: 开始设备运行</li> <li>[关] 按钮: 停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[制冷] 按钮: 切换到制冷模式</li> <li>[制热] 按钮: 切换到制热模式</li> <li>[送风] 按钮: 切换至送风模式。选择 送风时, 您不能设定温度</li> <li>[除湿] 按钮: 在雨季或空气湿度较高时去除湿气。选择 除湿时, 您不能设定温度</li> <li>[节电] 按钮: 此运行能找到通风系统效率最佳的运行点以降低能耗。它通过提供大于送风风速的排风风速来顺利排出被污染的室内空气</li> <li>[再热] 按钮: 在制冷/制热功能运行的同时保持恒定温度和湿度。(AHU 再热盘管使用时才可用。)</li> </ul>
设定温度	按 [▲]/[▼] 按钮设定温度
风扇控制标准	<ul style="list-style-type: none"> <li>[风速] 按钮: 根据风速状态控制风扇</li> <li>[温度] 按钮: 根据温度状态控制风扇</li> <li>[压力] 按钮: 根据定压状态控制风扇</li> </ul>
风速	它只有在风扇控制标准为风速时出现 <ul style="list-style-type: none"> <li>[低] 按钮: 将风速设定为慢速</li> <li>[中] 按钮: 将风速设定为正常</li> <li>[高] 按钮: 将风速设定为快速</li> </ul>
自动通风	它只有在 AHU 设备注册过程中在 附加功能中选择了“自动通风”或“自动通风/加湿”时才会出现 <ul style="list-style-type: none"> <li>自动通风 [设定/取消] 按钮: 启动/停止自动通风</li> </ul>
设定 CO <sub>2</sub>	只有设定了自动通风功能时它才能被启用 按 [▲]/[▼] 按钮以 100ppm 为单位在 100 ppm ~ 2 000 ppm 范围内设置。
加湿	它只有在 AHU 设备注册过程中在 附加功能中选择了“加湿”或“自动通风/加湿”时才会出现 <ul style="list-style-type: none"> <li>加湿 [设定/取消] 按钮: 启动/停止加湿功能</li> </ul>
湿度	只有设定了除湿功能时它才能被启用 按 [▲]/[▼] 按钮设定目标湿度
风阀开度	<ul style="list-style-type: none"> <li>按 [OA 风阀]: [▲]/[▼] 按钮以 1° 为单位设置室外新风风阀的张开角度值(范围: 0° ~ 90°)</li> <li>按 [MIX 风阀]: [▲]/[▼] 按钮以 1° 为单位设置混风风阀的张开角度值(范围: 0° ~ 90°)</li> <li>按 [EA 风阀]: [▲]/[▼] 按钮以 1° 为单位设置排风风阀的张开角度值(范围: 0° ~ 90°)</li> </ul> 当您设定[设置]-[系统设置]的 风阀开度计算公式应用 为 设定时, 其运行方式为: OA风阀 = EA风阀, OA风阀 = 混合风阀
锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮: 设定/取消 锁定, 这样用户就无法使用单独的线控器控制任何功能</li> </ul>

详细查看 AHU

在 AHU 的控制界面中, 可以按 [查看详细] 按钮以查看详情信息。

Campus #1

设备控制

基本组 > Group

运行状态: 12 / 6

MAHU\_General

控制 信息

查看详细

运行: 开 关

模式: 制冷 制热 送风

节能 省电

OA:30 MIX:60 EA:30

设定温度: 20.0 °C

风机控制标准: 风机 温度 压力

风速: 低 中 高

应用

3D schematic of a Split DOAS system. The system includes a central fan unit and four air handling units (EA, RA, OA, SA) connected via ductwork. Key components and data points include:

- EA (Exhaust Air):** 风门: 40°
- RA (Return Air):** 温度 0.0°C, 湿度 20.0%, CO<sub>2</sub> 0ppm
- OA (Outdoor Air):** 温度 50.0°C, 湿度 60.0%
- SA (Supply Air):** 风门 50°, 温度 70.0°C
- Central Fan Unit:** 风门 30°, 送风固定压力 0Pa, 温度 30.0°C, 湿度 40.0%

➔ SPLIT DOAS

## SPLIT DOAS(ARND/DB)

项目	描述
查看详情	单击 [查看详情] 按钮, 查看详细信息 (手机不可用)
运行状态	<ul style="list-style-type: none"> <li>[开始运行] 按钮: 启动设备运行</li> <li>[停止运行] 按钮: 停止设备运行</li> </ul>
目标温度	按 [▲]/[▼] 按钮设置目标温度
已占用	将 DOAS 管理的空间设置为已占用或闲置的功能 <ul style="list-style-type: none"> <li>[已占用] 按钮: 设置为已占用</li> <li>[闲置] button: 设置为闲置</li> </ul>

## SPLIT DOAS(ARND/DC)

项目	描述
查看详情	单击 [查看详情] 按钮, 查看详细信息 (手机不可用)
	<ul style="list-style-type: none"> <li>[开始运行] 按钮: 启动设备运行</li> </ul>

运行状态	<ul style="list-style-type: none"><li>• <b>[停止运行]</b> 按钮：停止设备运行</li></ul>
目标温度	按 <b>[▲]/[▼]</b> 按钮设置目标温度
已占用	将 DOAS 管理的空间设置为已占用或闲置的功能 <ul style="list-style-type: none"><li>• <b>[已占用]</b> 按钮：设置为已占用</li><li>• <b>[闲置]</b> button: 设置为闲置</li></ul>

## Multi V 连锁节能控制

根据Multi V的运行状态和室内外空气温度/湿度随时调整DOAS与Multi V运行模式的功能，达到节能的目的。

只有在适宜的室内条件(制冷模式，28℃以下，60%以下的相对湿度)下可以运行的模式，您可以根据实际情况调整所需的湿度与节能程度。

### 注意

- 欲使用Multi V 连锁节能控制，需要一个 DOAS 室内湿度传感器。
- 只有在制冷或除湿模式下运行 DOAS 且所有室内设备都处于制冷运行状态时，才能进行节能运行。
- 节能步骤：接近步骤 3 时，除湿功能减弱，节能功能加强。

➔ 设置Multi V 连锁节能控制

涡旋式冷水机



类别	说明
运行	<ul style="list-style-type: none"> <li>• [开] 按钮：开始设备运行</li> <li>• [关] 按钮：停止设备运行</li> </ul>
模式	(仅当设备支持相应模式时出现) <ul style="list-style-type: none"> <li>• [制冷] 按钮：切换到制冷模式</li> <li>• [制热] 按钮：切换到制热模式</li> </ul>
设定温度	设定室内机制冷/制热的循环水出水温度 按 [▲]/[▼] 按钮设定制冷模式和制热模式的温度
警报	[取消] 按钮：冷水机发出警报时清除报警
需量控制	按 [▲]/[▼] 按钮设定需量限制比

螺杆式冷水机



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	模式无法控制。控制被监测模式的设定温度
设定温度	设定室内制冷/制冰的压水出水温度 按 [▲]/[▼] 按钮设定制冷模式和制冰模式的温度
警报	[取消] 按钮：冷水机发出警报时清除报警
电机电流限制	按 [▲]/[▼] 按钮设定电机电流限制比

离心式冷水机



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	模式无法控制。控制被监测模式的设定温度
设定温度	设定室内制冷/制热/制冰的循环水出水温度 按 [▲]/[▼] 按钮设定制冷模式和制热/制冰模式的温度
警报	[取消] 按钮：冷水机发出警报时清除报警
电机电流限制	按 [▲]/[▼] 按钮设定电机电流限制比

吸收式冷水机



类别	说明
运行	<ul style="list-style-type: none"> <li>• [开] 按钮：开始设备运行</li> <li>• [关] 按钮：停止设备运行</li> </ul>
模式	模式无法控制。控制被监测模式的设定温度
设定温度	设定室内机制冷/制热的循环水出水温度 按 [▲]/[▼] 按钮设定制冷模式和制热模式的温度
警报	[取消] 按钮：冷水机发出警报时清除报警
控制阀上限	按 [▲]/[▼] 按钮设定控制阀上限比

DOKIT



类别	说明
运行	<ul style="list-style-type: none"><li>• [开] 按钮：开始设备运行</li><li>• [关] 按钮：停止设备运行</li></ul>



DO



类别	说明
运行	<ul style="list-style-type: none"><li>• [接通] 按钮：短路信号输出</li><li>• [断开] 按钮：开路信号输出</li></ul>



AO



类别	内容说明
温度	设定温度值

**注意**

单位符号可能会根据设备注册期间的使用设置而改变。

## 设备信息

当您单击设备控制界面中的“设备信息”选项卡后，可以检查设备的信息。

您可以检查设备的基本信息、运行信息、时间表信息、错误信息和当天的历史记录。

AC_UNIT_1A	AC_UNIT_1A	AC_UNIT_1A	AC_UNIT_1A	AC_UNIT_1A																		
<div style="display: flex; justify-content: space-between;"> <span>控制</span> <span>信息</span> </div> <p>基本信息</p> <p>名称 AC_UNIT_1A</p> <p>设备地址 1A</p> <p>组群 Indoor unit</p> <p>查看图样</p> <p>室外机 ODU[01]</p> <p>型号 AC</p> <p>容量 3</p> <p>室外机型号 MULTIV</p> <p>室外机容量 100</p> <p>运行 / 驱动信息</p> <p>时间表信息 (3)</p> <p>错误信息</p> <p>历史记录</p>	<div style="display: flex; justify-content: space-between;"> <span>控制</span> <span>信息</span> </div> <p>基本信息</p> <p>运行 / 驱动信息</p> <p>运行 开</p> <p>模式 送风</p> <p>当前温度 23.0 °C</p> <p>设定温度 25.0 °C</p> <p>风速 自动</p> <p>摆风 设定</p> <p>设定温度范围 24.0 °C / 28.0 °C</p> <p>缺油报警 取消</p> <p>滤网清洗提示 正常</p> <p>峰值/需量控制 取消</p> <p>锁定 取消</p>	<div style="display: flex; justify-content: space-between;"> <span>控制</span> <span>信息</span> </div> <p>基本信息</p> <p>运行 / 驱动信息</p> <p>时间表信息 (3)</p> <table border="1"> <thead> <tr> <th>时间</th> <th>说明</th> </tr> </thead> <tbody> <tr> <td>09:00</td> <td>Schedule 1</td> </tr> <tr> <td>18:00</td> <td>Schedule 1</td> </tr> <tr> <td>15:00</td> <td>Schedule 2</td> </tr> </tbody> </table> <p>错误信息</p> <p>历史记录</p>	时间	说明	09:00	Schedule 1	18:00	Schedule 1	15:00	Schedule 2	<div style="display: flex; justify-content: space-between;"> <span>控制</span> <span>信息</span> </div> <p>基本信息</p> <p>运行 / 驱动信息</p> <p>时间表信息 (3)</p> <p>错误信息</p> <p>错误 无错误</p> <p>错误代码 0</p> <p>错误说明 无错误</p> <p>历史记录</p>	<div style="display: flex; justify-content: space-between;"> <span>控制</span> <span>信息</span> </div> <p>基本信息</p> <p>运行 / 驱动信息</p> <p>时间表信息 (3)</p> <p>错误信息</p> <p>历史记录</p> <table border="1"> <thead> <tr> <th>时间</th> <th>内容</th> </tr> </thead> <tbody> <tr> <td>2018-02-06 15:00</td> <td>控制 模式: 送风 by 时间表</td> </tr> <tr> <td>2018-02-06 09:31</td> <td>控制 模式: 制冷 ACS</td> </tr> <tr> <td>2018-02-06 09:31</td> <td>控制 模式: 制冷 by admin</td> </tr> <tr> <td>2018-02-06 09:00</td> <td>控制 模式: 制热 by 时间表</td> </tr> </tbody> </table>	时间	内容	2018-02-06 15:00	控制 模式: 送风 by 时间表	2018-02-06 09:31	控制 模式: 制冷 ACS	2018-02-06 09:31	控制 模式: 制冷 by admin	2018-02-06 09:00	控制 模式: 制热 by 时间表
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2018-02-06 09:31	控制 模式: 制冷 by admin																					
2018-02-06 09:00	控制 模式: 制热 by 时间表																					

## 控制

您可以将注册的设备设定为所需状态并进行控制。

1. 在左侧菜单选项卡中，单击 [控制] > [设备控制] 菜单。
2. 在设备列表选项卡区域中，单击所需选项卡。

类别	说明
组群	为了方便起见设定的管理组列表
安装	提供实际连接的设备信息

3. 在筛选区域中，单击设备类型的筛选按钮或者要控制的状态。
  - 您可以选择多个筛选按钮。
  - 仅选择并显示相应的信息。



筛选类型	详细类别
设备	室外机、室内机、空气净化器、AHU、冷水机、ERV、Heating、开/关设备、DI、DO、EXP.I/O
状态	开、关、热水 开、热水 关、时间表、峰值控制、错误、滤网更换报警、锁定、机油更换报警

4. 在设备区中，选择要控制的设备。
  - 您可以一次选择多个要控制的设备。要选择特定组中的所有设备，单击 [多选] 按钮，并单击 [全选] 按钮。根据多个所选设备的类型限制控制类别。



5. 在控制窗口中，设定相应设备的控制状态。
6. 设置完成后，单击 [应用] 按钮。

## 监测

您可以检查已注册设备的控制状态。

1. 在左侧菜单选项卡中，单击 [控制] > [设备控制] 菜单。
2. 在设备列表选项卡区域中，单击所需选项卡。

类别	说明
组群	为了方便起见设定的管理组列表
安装	提供实际连接的设备信息

3. 在筛选区域中，单击设备类型的筛选按钮或者要检查的状态。
  - 您可以选择多个筛选按钮。
  - 仅选择并显示相应的信息。



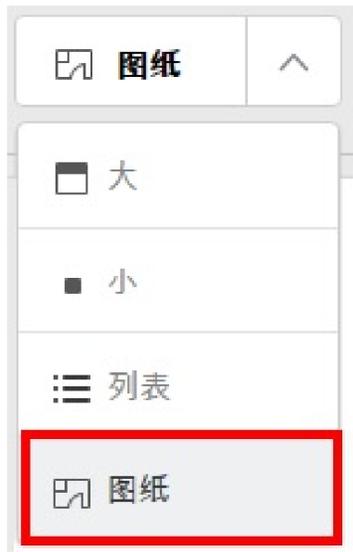
过滤器类型	详细类别
设备	室外机、室内机、空气净化器、AHU、冷水机、ERV、Heating、开/关设备、DI、DO、EXP.I/O
状态	开、关、热水 开、热水 关、时间表、峰值控制、错误、滤网更换报警、锁定、机油更换报警

4. 在设备区中检查设备信息。
5. 要检查设备的详细控制状态，单击相应的设备图标。
  - 显示相应的设备控制窗口。

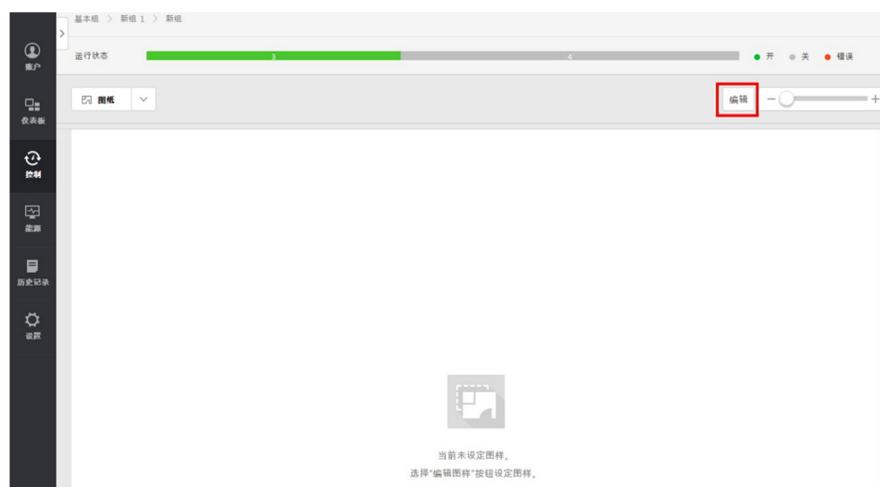
## 编辑图纸

当 [设置] > [系统设置] 的图纸使用被选择为 设定时，您可以编辑图纸。

1. 在左侧菜单选项卡中，单击 [控制] > [设备控制] 菜单。
2. 在设备组选项卡区域，单击 [组群] 选项卡。
  - 当您选择 [安装] 选项卡时，查看方式的 [图纸] 将被禁用。
3. 在查看方式中，单击 [图纸]。



4. 单击 [编辑] 按钮。

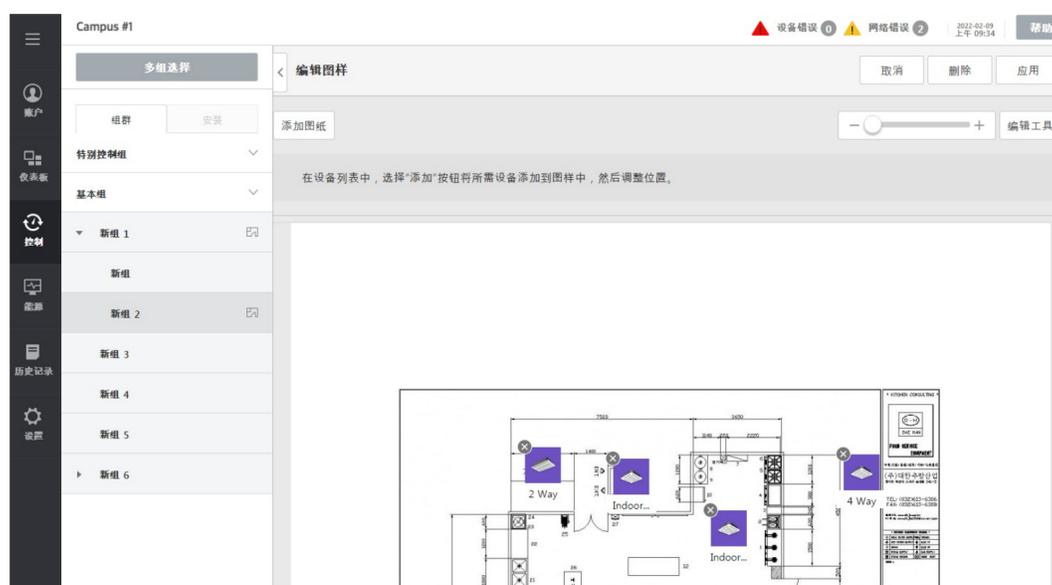


5. 当您添加或更改图纸时，单击 [添加图纸] 按钮。

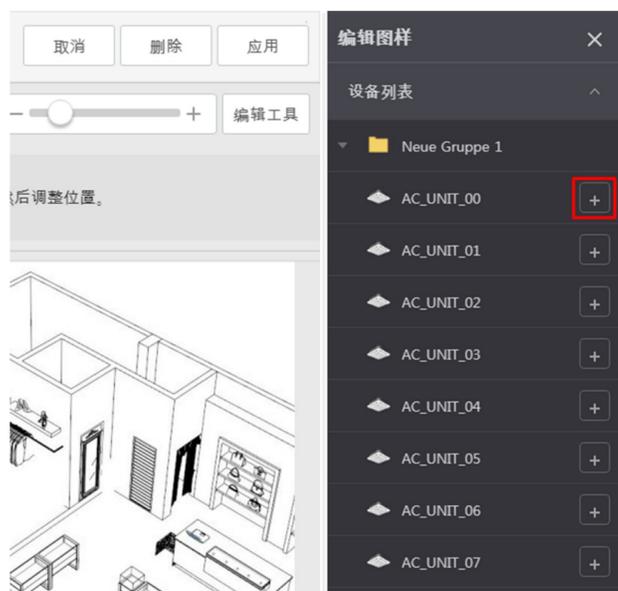


6. 当显示文件加载窗口时，选择要添加的图纸文件并单击 [打开] 按钮。

- 编辑图样 界面中显示所选的图纸。



7. 要添加设备到图纸中，在右侧 编辑图纸窗口中的设备列表中选择所需设备，然后单击 [+] 按钮。设备被添加到图纸区中。



8. 要添加文本或修改图纸中的文本，可以使用文本框。



类别	说明
添加文本	在图纸区中添加文本
编辑文本	编辑文本框中的文本
样式	<p><b>T</b> : 正常字母、加粗、斜体、下划线</p> <ul style="list-style-type: none"> <li>• <b>T</b> : 显示正常字母</li> <li>• <b>T</b> : 显示加粗字母</li> <li>• <i>T</i> : 显示斜体字母</li> <li>• <u>T</u> : 显示下划线字母</li> </ul> <p><b>T</b> : 更改字母颜色</p> <p><b>T</b> : 更改字母背景颜色</p>
字母大小	<p><b>T</b> ▲ : 字体变大</p> <p><b>T</b> ▼ : 字体变小</p>

9. 如需在图上对设备图标，请使用“对齐框”。



类别	说明
选择设备	选择一个设备，将其在图上对齐。
对齐	 ：将选定设备图标在垂直方向上对齐。  ：将选定设备图标在水平方向上对齐。

10. 设置完成后，单击 [应用] 按钮。

### 注意

- 部分垂直分辨率为 1000px 或以上的图纸图像可能无法显示，请根据显示分辨率使用适当分辨率的图像。在显示分辨率为 1920x1080 的环境中，推荐使用 1478x1000 或更小的图像。
- 文件格式：jpg, png, bmp / 最大尺寸：10MB
- 在文本添加/编辑期间，可能无法特殊符号 (^, |w)。
- 您最多可输入 40 个字符。

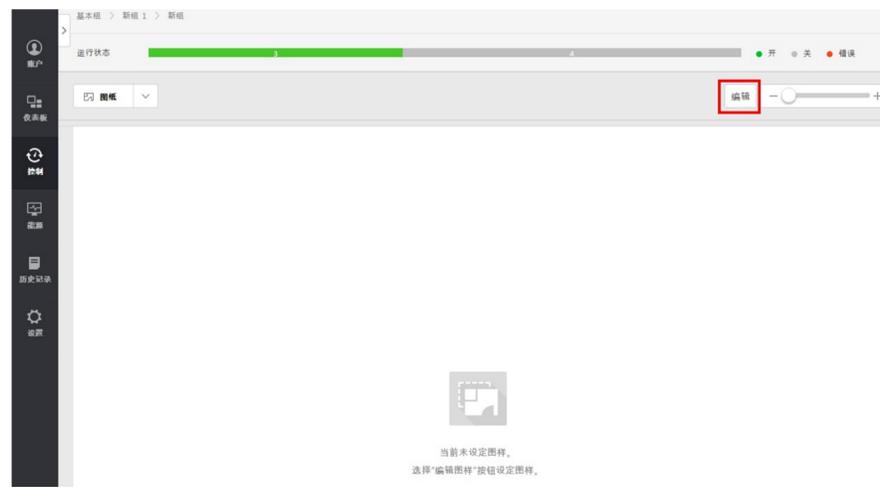
## 删除图纸

您可以删除添加的图纸。

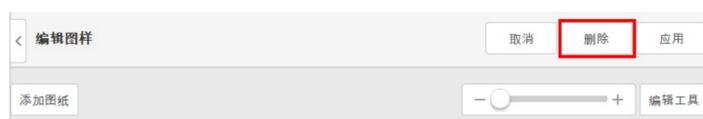
1. 在左侧菜单选项卡中，单击 [控制] > [设备控制] 菜单。
2. 在设备组选项卡区域，单击 [组群] 选项卡。
3. 在查看方式中，单击 [图纸]。



4. 单击 [编辑] 按钮。
  - 显示 编辑图纸界面。



5. 单击顶部的 [删除] 按钮。
  - 图纸被删除。



## 时间表控制

时间表是一项提前指定设备运行，让设备在特定时间执行预定运行的功能。当您使用此功能时，您可以有效管理设备的运行时间，实现高效的节能效果。

### [时间表]

- 查看完整时间表
- 添加时间表
- 删除时间表
- 复制时间表
- 编辑时间表

### [除外日期]

- 加载除外日期
- 添加除外日期
- 删除除外日期

## 注意

### 建议的规格

- 时间表：包括在整个时间表中的所有事件数量为 50
- 如果设置为超过建议的规范，则可能会出现性能降低。

## 查看完整时间表

您可以在设置期间查看时间表列表。

您可以检查是否应用了设定的时间表、名称、是否重复、开始日期、结束日期和设备列表，以及直接 [设定] 或 [取消] 所需的时间表。

Campus #1 设备错误 0 网络错误 2 | 2022-02-09 上午 09:34 帮助

### 时间表控制

设定全部 全部清除 添加

是否应用	名称	是否重复	开始日期	结束日期	设备	编辑
<span>设定</span> <span>取消</span>	test	每周 (星期一, 星期二, 星期三, 星期四, 星期五)	2016-12-30	未指定	全部 (1), 室内机 (1)	
<span>设定</span> <span>取消</span>	test-1	每周 (星期一, 星期二, 星期三, 星期四, 星期五)	2016-12-30	未指定	全部 (1), 室内机 (1)	

## 添加时间表

您可以添加时间表类别。

- 在左侧菜单选项卡中，单击 [控制] > [时间表控制] 菜单。
  - 显示时间表控制界面。
- 在时间表列表中，单击 [添加] 按钮。
  - 显示添加时间表界面。
- 在时间表名称输入字段中，输入所需的时间表名称。
- 设定是否重复此时间表。

类别	说明
一次	只将相应时间表应用到 [时间段] 中指定的一天
星期选择	选择星期中需要的某天，并且只将时间表应用到星期中从开始日期到结束日期中相应的某天

### 5. 设定所需时段

- 当重复选择为 [一次]，则仅运行 1 天
- 当重复选择为 [星期选择]，请选择开始和结束日期

类别	说明
开始日期	<ul style="list-style-type: none"> <li>在迷你日历中选择所需的开始日期</li> <li>首次开始日期选择为今天的日期</li> </ul>
结束日期	<ul style="list-style-type: none"> <li>在迷你日历中选择所需的结束日期</li> <li>您设定的结束日期不能早于开始日期</li> </ul>
未指定结束日期	<ul style="list-style-type: none"> <li>不指定结束日期，重复应用时间表</li> </ul>

### 6. 要应用设定除外日期，单击 [加载] 按钮。

- 更新并显示 [设置]-[系统设置] 的时间表除外日期设置 中的除外日期设置

### 7. 要应用新的除外日期，单击 [添加除外日期] 按钮设定除外日期名称和要添加的日期。

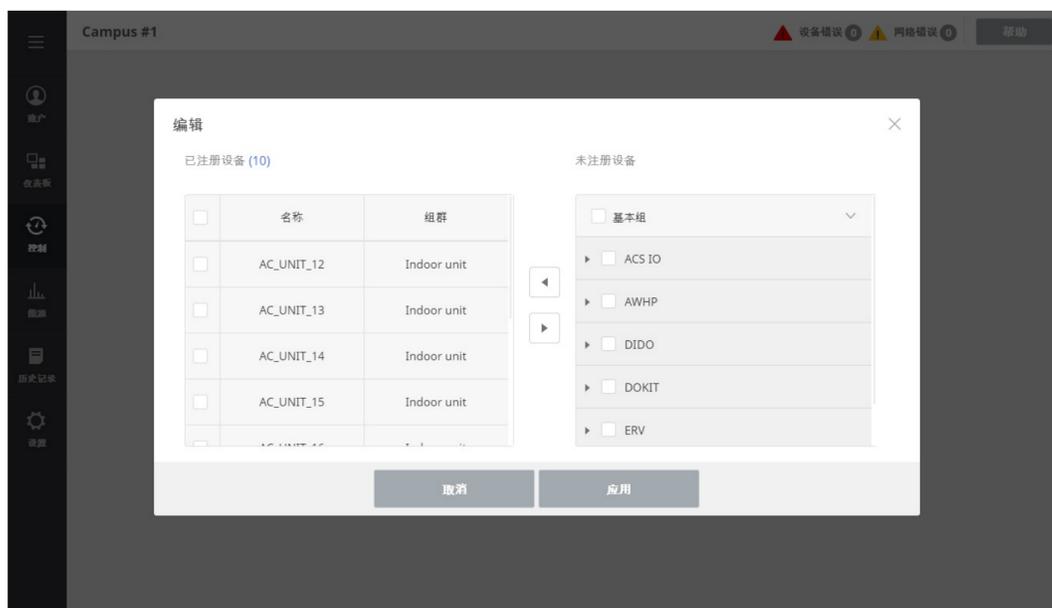
### 8. 在设备设置区中，单击 [编辑] 按钮。

- 显示编辑设备窗口。



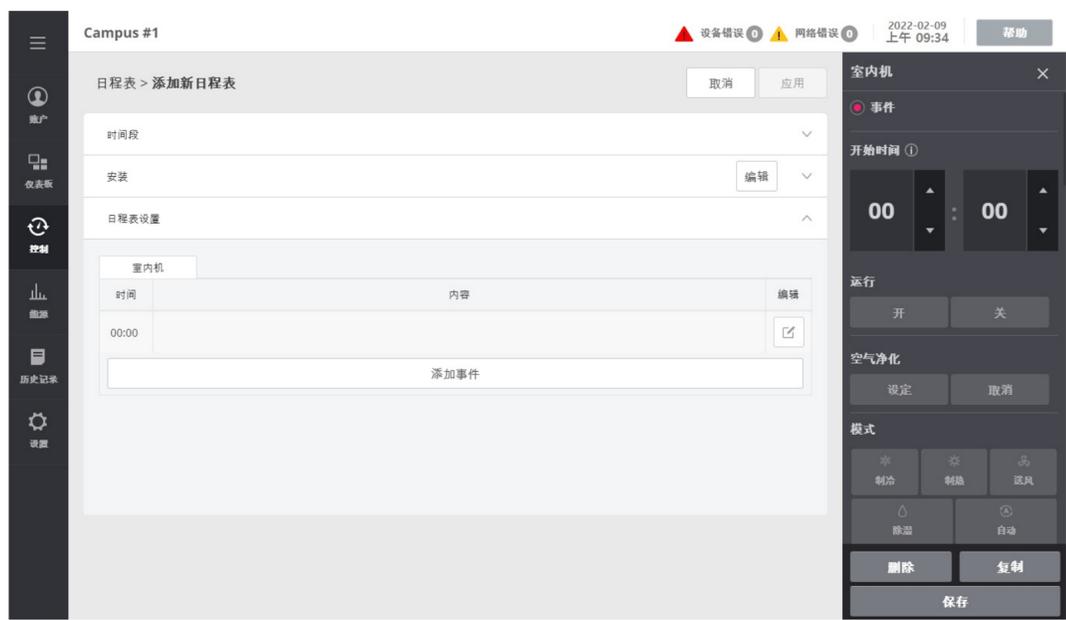
### 9. 在未注册设备列表中，单击要注册设备的复选框并单击 [◀] 按钮。

- 要一次注册多个组，单击要注册组的复选框，然后单击 [◀] 按钮。
- 所选设备被添加到注册设备列表中。



### 10. 设备注册完成后，单击 [应用] 按钮。

### 11. 如果要添加时间表事件，在日程表设置，选择设备类型选项卡，然后单击 [添加事件] 按钮或编辑按钮以在右侧的控制区域设置该设备的控制状态。



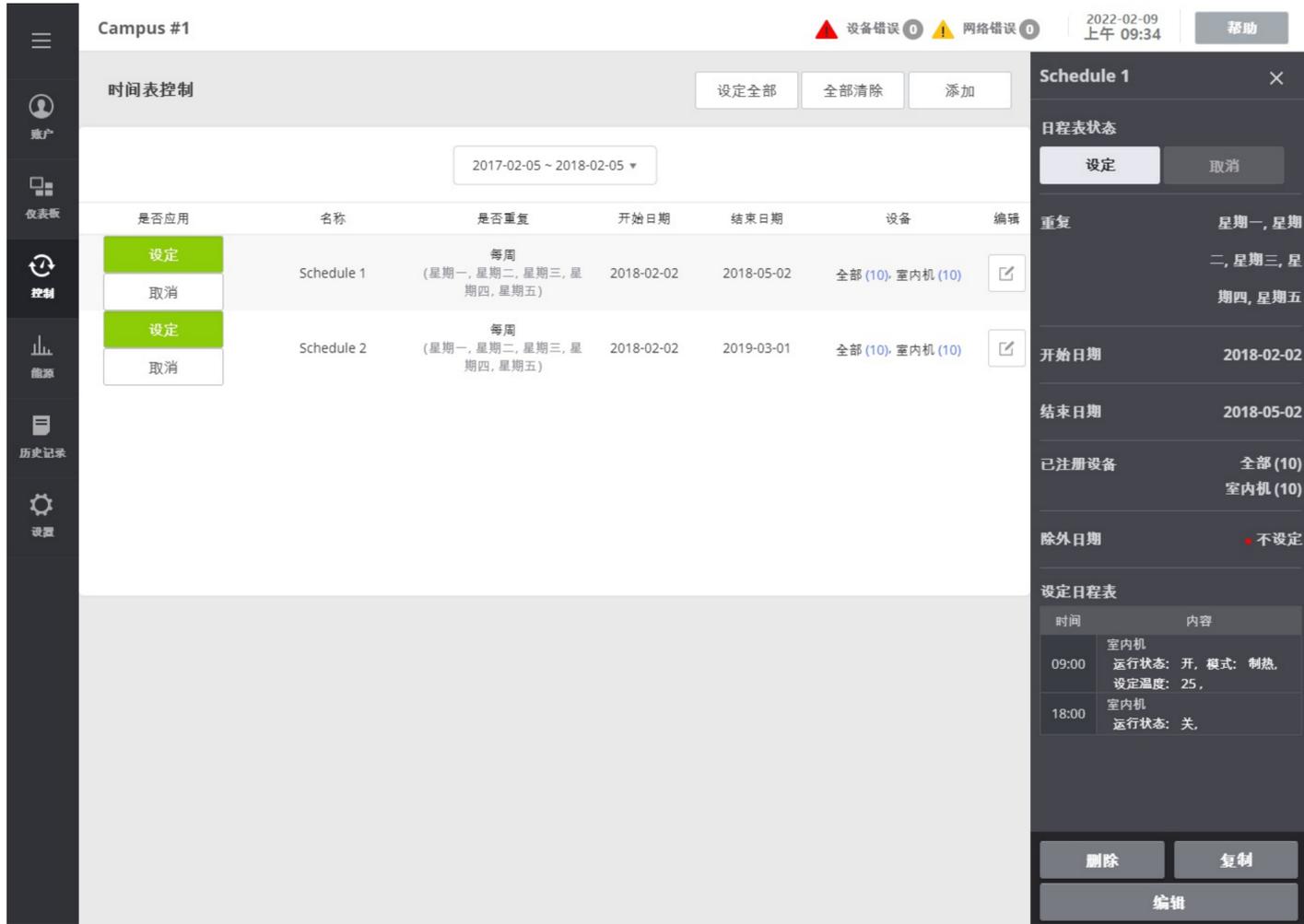
12. 控制设置完成后, 单击 [保存] 按钮。

13. 所有设置完成后, 单击 [应用] 按钮。

## 删除时间表

您可以删除已注册的时间表。

1. 在左侧菜单选项卡中，单击 [控制] > [时间表控制] 菜单。
  - 显示时间表控制界面。
2. 在时间表列表中，单击要删除时间表的 编辑按钮。

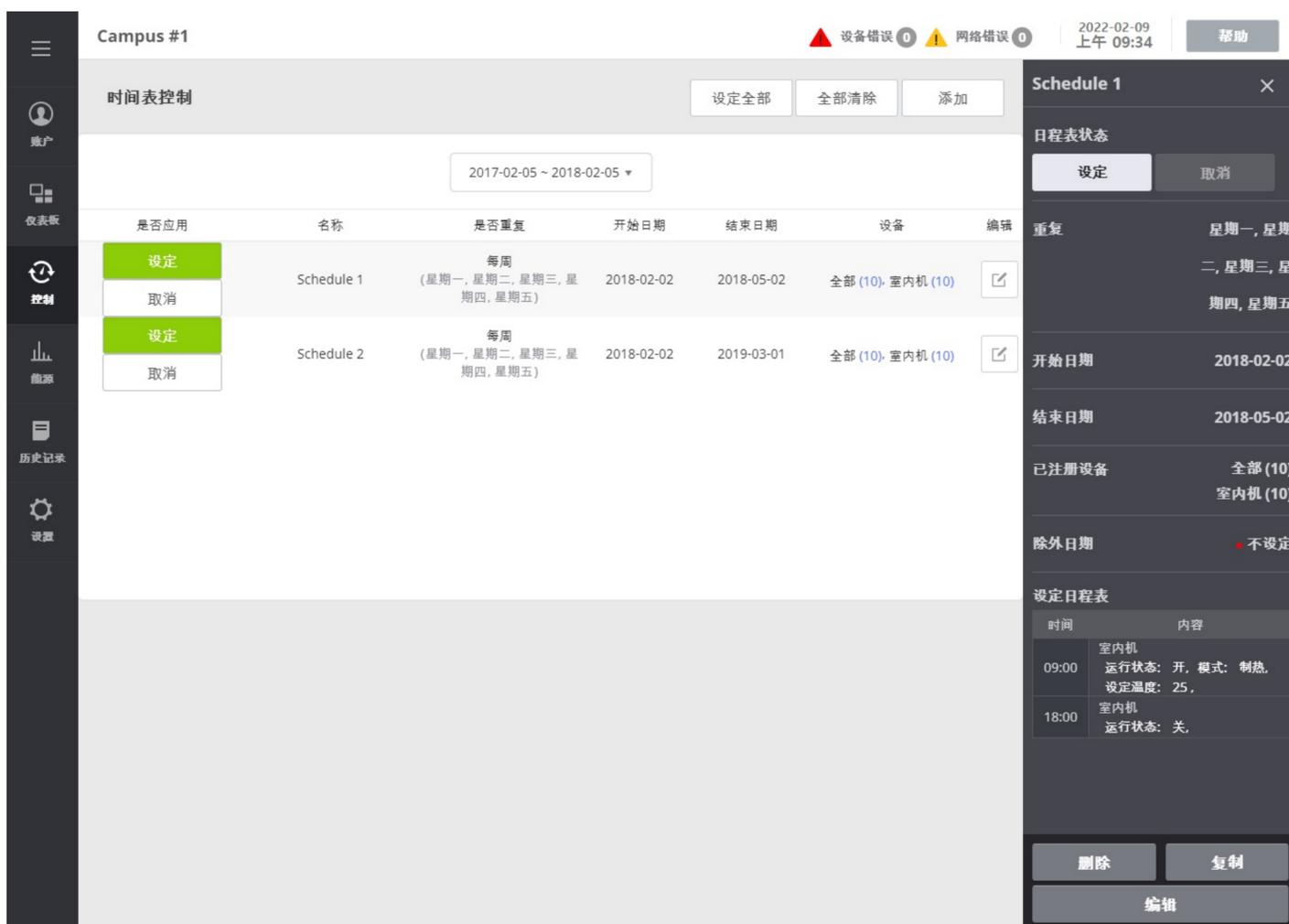


3. 在右侧的 编辑窗口界面中，单击 [删除] 按钮。
4. 当出现通知弹出窗口时，单击 [检查] 按钮。

## 复制时间表

您可以复制并使用已注册的时间表。

1. 在左侧菜单选项卡中，单击 [控制] > [时间表控制] 菜单。
  - 显示时间表控制界面。
2. 在时间表列表中，单击要复制时间表的“Edit(编辑)”按钮。



3. 在右侧的 编辑窗口界面中，单击 [复制] 按钮。
4. 当出现通知弹出窗口时，单击 [检查] 按钮。

## 编辑时间表

您可以更改已注册时间表的设定内容。

1. 在左侧菜单选项卡中，单击 [控制] > [时间表控制] 菜单。
  - 显示时间表控制界面。
2. 在时间表列表中，单击要编辑时间表的 编辑按钮。

The screenshot displays the 'Campus #1' management interface. At the top, there are status indicators for '设备错误' (Device Error) and '网络错误' (Network Error), along with the date and time '2022-02-09 上午 09:34' and a '帮助' (Help) button. The main area is titled '时间表控制' (Schedule Control) and includes buttons for '设定全部' (Set All), '全部清除' (Clear All), and '添加' (Add). A date range selector shows '2017-02-05 ~ 2018-02-05'. Below this is a table of schedules:

是否应用	名称	是否重复	开始日期	结束日期	设备	编辑
<input checked="" type="checkbox"/>	Schedule 1	每周 (星期一, 星期二, 星期三, 星期四, 星期五)	2018-02-02	2018-05-02	全部 (10), 室内机 (10)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Schedule 2	每周 (星期一, 星期二, 星期三, 星期四, 星期五)	2018-02-02	2019-03-01	全部 (10), 室内机 (10)	<input type="checkbox"/>

The right sidebar, titled 'Schedule 1', provides configuration options: '日程表状态' (Schedule Status) with '设定' (Set) and '取消' (Cancel) buttons; '重复' (Repeat) set to '星期一, 星期二, 星期三, 星期四, 星期五'; '开始日期' (Start Date) as '2018-02-02'; '结束日期' (End Date) as '2018-05-02'; '已注册设备' (Registered Devices) as '全部 (10) 室内机 (10)'; and '除外日期' (Excluded Dates) as '不设定' (None). The '设定日程表' (Set Schedule Table) section shows a table of time slots:

时间	内容
09:00	室内机 运行状态: 开, 模式: 制热, 设定温度: 25,
18:00	室内机 运行状态: 关,

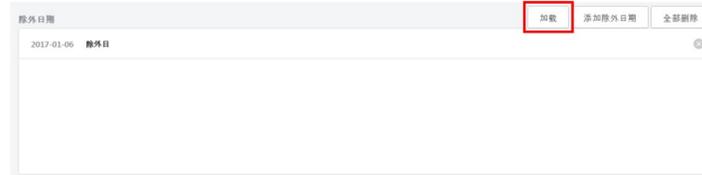
At the bottom of the sidebar are buttons for '删除' (Delete), '复制' (Copy), and '编辑' (Edit).

3. 在右侧的 编辑窗口界面中，单击 [编辑] 按钮。
4. 编辑时间表内容。
  - 要检查详细内容，检查“添加时间表”类别。

## 加载除外日期

您可以加载已设置的除外日期。

1. 在左侧菜单选项卡中，单击 [控制] > [时间表控制] 菜单。
  - 显示时间表控制界面。
2. 在时间表列表中，单击 [添加] 按钮。
  - 显示 添加时间表界面。
3. 在除外日期选项卡中，单击 [加载] 按钮
  - 更新并显示 [设置]-[系统设置]的时间表除外日期设置 中的除外日期



## 添加除外日期

您可以添加新的除外日期。

1. 在左侧菜单选项卡中，单击 [控制] > [时间表控制] 菜单。
  - 显示时间表控制界面。
2. 在时间表列表中，单击 [添加] 按钮。
  - 显示 添加时间表界面。
3. 在除外日期选项卡中，单击 [添加除外日期] 按钮
  - 显示 添加除外日期界面。



4. 输入所需的除外日期名称。
5. 选择要设定的除外日期。
6. 选择完成后，单击 [应用] 按钮。

## 删除除外日期

您可以删除已注册的除外日期。

1. 在左侧菜单选项卡中，单击 [控制] > [时间表控制] 菜单。
  - 显示时间表控制界面。
2. 在 编辑时间表界面中，单击 [X] 按钮删除除外日期。
  - 要删除所有除外日期，单击 [全部删除] 按钮。

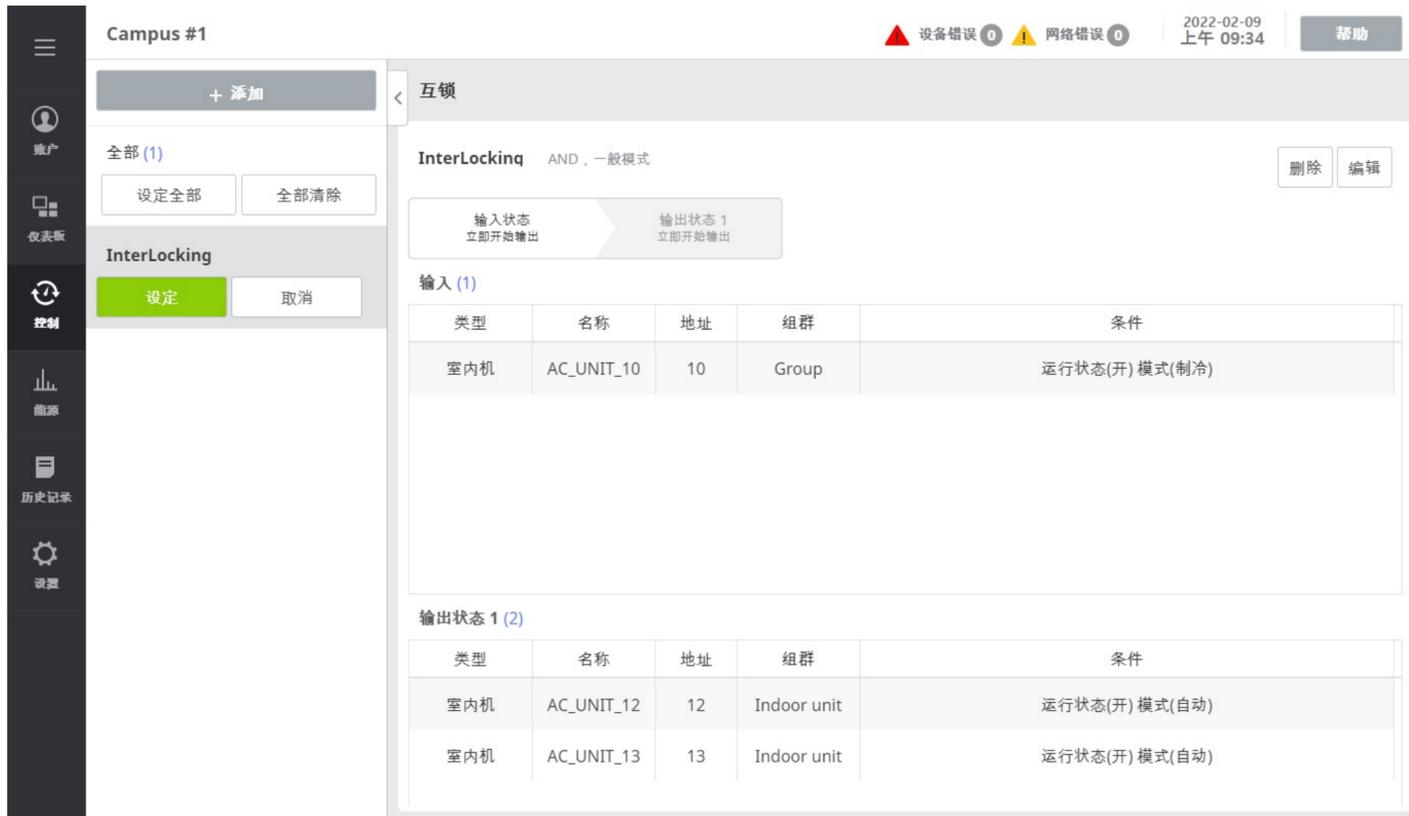


## 互锁

互锁是指与一个或多个设备相连，在输入条件满足时对输出操作进行控制的一项功能。对于互锁，您需要将设备分组关联成一个群组上并应用控制设置。它说明了创建并管理组的方法以及互锁方法。

1. 在左侧菜单选项卡中，单击 [控制] > [互锁] 菜单。

- 显示互锁界面。



2. 在组列表中，选择要检查设置的组。

- 界面中显示相应组的设置状态。

3. 在组列表中，当您单击 [设定] / [取消] 按钮时，您可以设定互锁操作。

4. 要启动所有注册的组，单击 [设定全部] 按钮；要全部停止，单击 [全部清除] 按钮。

### 注意

#### 建议的规格

- 设备关联控制：模式数量为 20，输入设备数量为 500，输出设备数量为 1000
- 如果设置为超过建议的规范，则可能会出现性能降低。

## 添加/编辑互锁

您可以添加并编辑新的互锁。

1. 在左侧菜单选项卡中，单击 [控制] > [互锁] 菜单。

- 显示互锁界面。

2. 单击 [+ 添加] 按钮。

- 显示添加互锁界面。

互锁 > 添加新互锁控制

删除 取消 应用

互锁名称

一般模式  满足输入条件时，执行输出控制指令的模式

允许用户控制

输入状态 立即开始输出      输出状态 1 立即开始输出

状态  和  或  NAND  NOR

维护时间  取消  设置   以后



无已注册设备。  
通过选择“编辑设备”按钮注册设备。

3. 在互锁名称输入字段中，输入所需的互锁名称。

4. 选择模式类型。

类别	说明
一般模式	<ul style="list-style-type: none"> <li>满足输入条件时，执行输出控制指令的模式</li> </ul>
复制模式	<ul style="list-style-type: none"> <li>输出设备跟随输入设备状态的模式 (某些控件功能可能无法复制。)</li> <li>您只可添加一台设备到输入条件，并且只能将与添加的输入设备具有相同属性的设备注册到输出设备。</li> </ul>
紧急模式	<ul style="list-style-type: none"> <li>当输入条件满足时，识别为紧急情况的模式</li> <li>当输入条件满足时，它通过屏幕画面和声音发出报警</li> </ul>
1:1 模式	<ul style="list-style-type: none"> <li>如果输入设备与输出设备相同，则可以方便地注册许多设备的模式</li> </ul>

5. 选择是否允许用户控制。(仅一般模式可用)

- 当选中此复选框时，即使通过互锁改变了状态，用户也可以改变设备的状态。

6. 设置设备关联条件。当按 [ + ] 按钮，可添加最多 3 个输出条件。

- 它只在选择了输入条件选项卡时出现。

类别	说明
状态	<ul style="list-style-type: none"> <li>AND：满足所有设备条件</li> <li>OR：一个或多个设备条件匹配</li> <li>NAND：一个或多个设备条件不匹配</li> <li>NOR：没有条件匹配</li> </ul>
维护时间	如果进行了设置，当满足所有输入条件时，则在维护时间后进行输出条件控制 按 [▼] 按钮选择维护时间

- 它只在选择了输出条件选项卡时出现。

类别	说明
发送电子邮件	选择复选框后，如果 ACP 中运行了相应事件，则发生的事件将被发送至“Setting > Administrator Setting > Receiving E-Mail Address(系统设置 > 管理员设置 > 接收电子邮件地址)”中设定的电子邮件。 <ul style="list-style-type: none"> <li>ACP 应连接到能发送电子邮件的互联网。</li> </ul>
延迟时间	如果进行了设置，当满足输入条件时，则在注册延迟时间后进行输出条件控制 按 [▼] 按钮选择延迟时间 <ul style="list-style-type: none"> <li>如果输入条件满足，即使延迟时间期间变为不满足输入条件状态，则延迟时间后输出条件依然执行。</li> </ul>

7. 要添加设备，单击 [编辑] 按钮。

- 出现 编辑设备弹出窗口。

8. 在可选设备列表中，单击要注册设备的复选框，然后单击 [◀] 按钮。

- 要一次注册多个组，单击要注册组的复选框，然后单击 [◀] 按钮。
- 所选设备被添加到注册设备列表中。



9. 设备注册完成后，单击 [应用] 按钮。

10. 单击已注册设备的 [条件] 按钮。



11. 在右侧控制窗口区中，设定所需的控制状态。

12. 选择输出条件选项卡，然后按顺序进行 7 ~ 11 步骤。

13. 要保存设定内容，单击 [应用] 按钮。

## 注意

### 各等级气味条件的含义

- 参考值 2：弱
- 参考值 4：一般
- 参考值 5：浓
- 参考值 6：非常浓

## 删除互锁

您可以删除已注册的互锁。

1. 在左侧菜单选项卡中，单击 [控制] > [互锁] 菜单。

- 显示互锁界面。

2. 在互锁列表中，选择要删除的组，然后单击 [删除] 按钮。

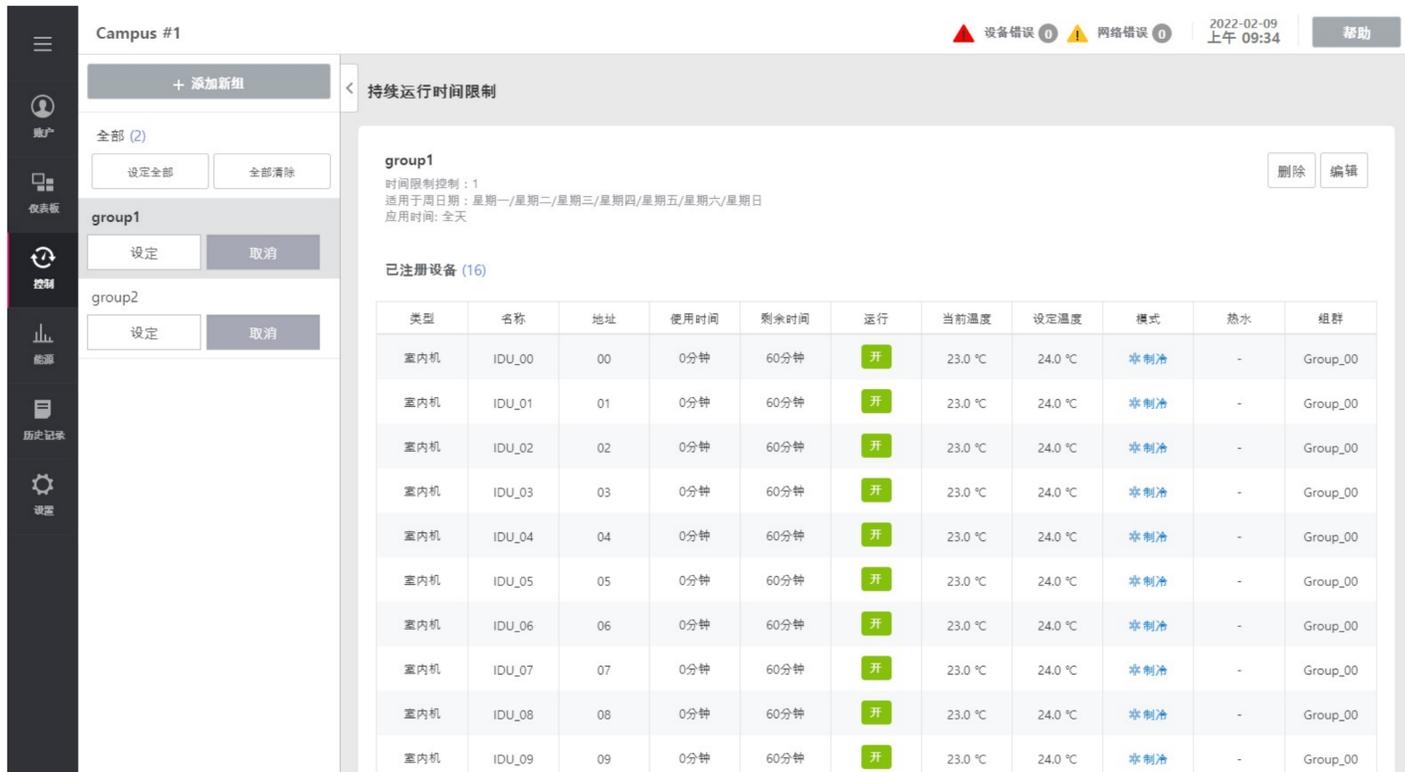
3. 当出现互锁删除弹出窗口时，单击 [是] 按钮。

- 在互锁列表中，所选的类别被删除。

## 持续运行时间限制

您可以控制设备在设定的时间运行和自动停止。

1. 在左侧菜单选项卡中，单击 [控制] > [持续运行时间限制] 菜单。
2. 在组列表中，选择要检查设置的组。
  - 界面中显示相应组的设置状态。
3. 在组列表中，您可以单击 [设定] / [取消] 按钮设定时间限制运行。
4. 要启动所有注册的组，单击 [设定全部] 按钮；要全部停止，单击 [全部清除] 按钮。



### 注意

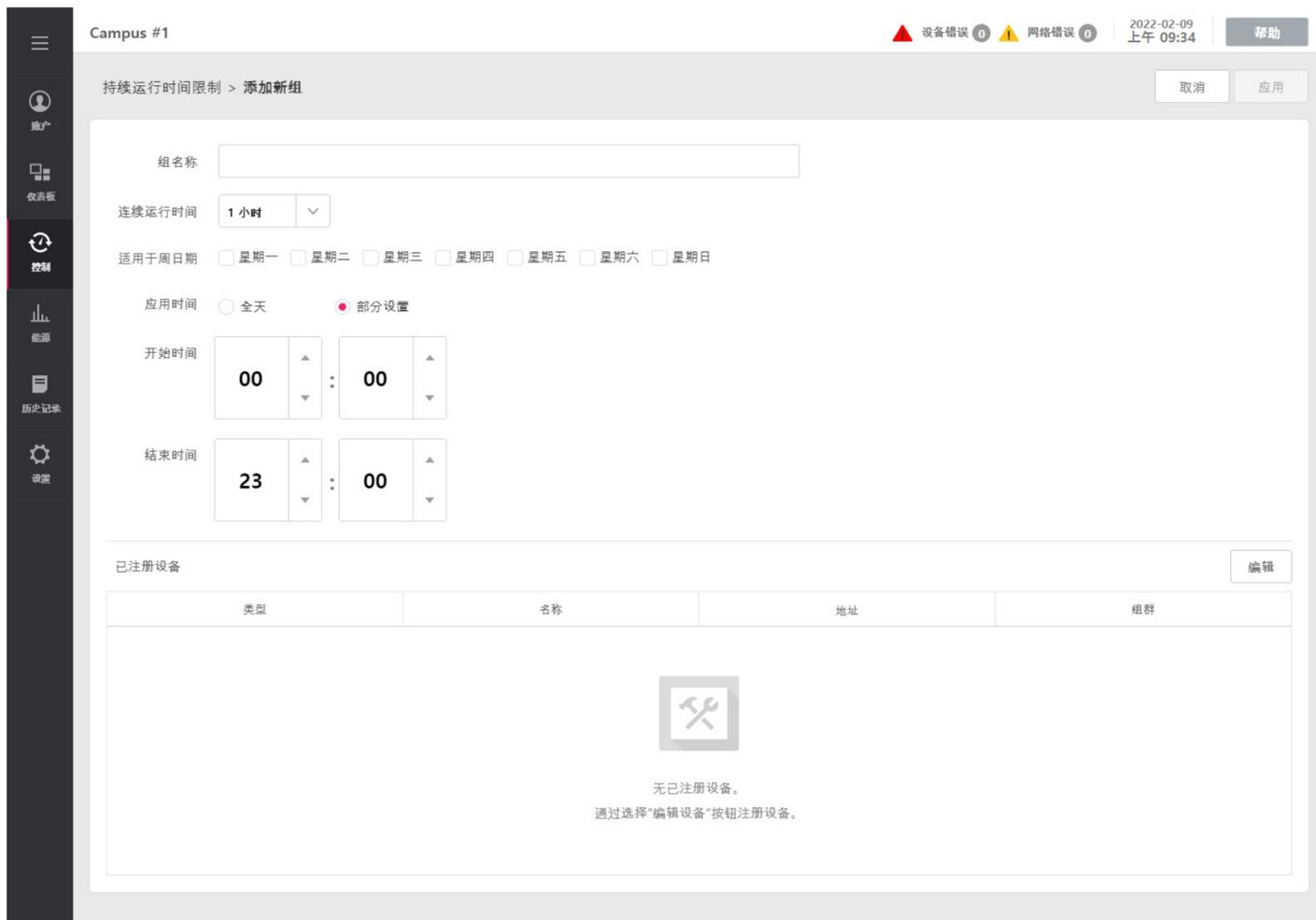
#### 建议的规格

- 运行时间限制：组数为 10
- 如果设置为超过建议的规范，则可能会出现性能降低。

## 添加/编辑“持续运行时间限制”组

您可以添加并编辑“持续运行时间限制”组。

1. 在左侧菜单选项卡中，单击 [控制] > [持续运行时间限制] 菜单。
  - 显示“持续运行时间限制”界面。
2. 单击 [+ 添加新组] 按钮。
  - 显示 添加新组界面。
  - 在编辑过程中，当您选择要编辑的组并单击 [编辑] 按钮时，将显示以下界面。



3. 输入组名称。

4. 选择连续运行时间、每周应用天数和应用时间。

类别	说明
持续运行时间级别	<ul style="list-style-type: none"> <li>按 [▼] 按钮，设置所需的连续运行时间(1 小时 ~ 4 小时)</li> </ul>
适用于周日期	<ul style="list-style-type: none"> <li>选中复选框以选择在星期几执行时间限制运行</li> </ul>
应用时间	选中复选框，可选择开始限时运行的时间 <ul style="list-style-type: none"> <li>全天：限时运行 24 小时</li> <li>设定时间：从用户设定的开始时间到结束时间限时运行</li> </ul>

5. 要添加设备，单击 [编辑] 按钮。

- 出现 编辑设备弹出窗口。



6. 在可选设备列表中，单击要注册设备的复选框，然后单击 [◀] 按钮。

- 对于限时控制，您可以注册除 DI、DO、开/关设备、冷水机和 Exp.I/O 设备之外的所有设备。
- 要一次注册多个组，单击要注册组的复选框，然后单击 [◀] 按钮。
- 所选设备被添加到注册设备列表中。

7. 设备注册完成后，单击 编辑设备弹出窗口中的 [应用] 按钮。

8. 单击右上方的 [应用] 按钮。

## 删除持续运行时间限制

您可以删除“持续运行时间限制”组。

1. 在左侧菜单选项卡中，单击 [控制] > [持续运行时间限制] 菜单。

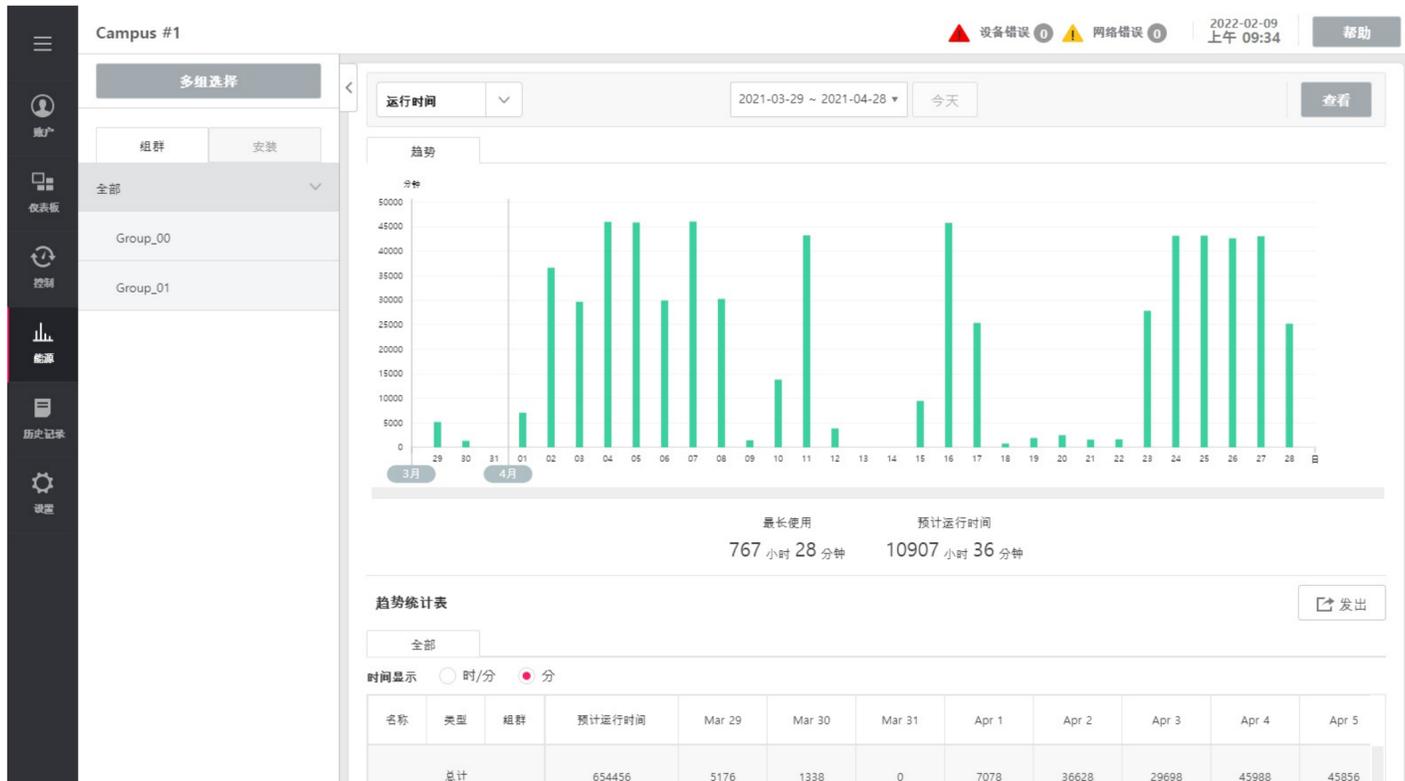
- 显示“持续运行时间限制”界面。

2. 在组列表中, 选择要删除的组并单击 [删除] 按钮。
3. 当出现 删除组弹出窗口时, 单击 [是] 按钮。

## 能量使用

使用数值和图表说明检查设备运行时间、用电量、用电量（历史总量）、用气量、TOE 和 CO<sub>2</sub> 的方法。

- 在左侧菜单选项卡中，单击 [能源] > [能量使用] 菜单。
  - 显示 能源使用量界面。



- 在组列表中，选择要查看的组。
- 在左上框中，选择要查看的类别。



### 4. 设定查看时段

类别	说明
日	在迷你日历中设定所需的日
月	在迷你日历中设定所需的月
时段	在迷你日历中设定所需的时段
今日	将今天的日期设为基准日期



5. 要查看设定内容，单击 [查看] 按钮。

- 显示设定时段的能源使用量。
- 要保存查看过的内容，单击 [发出] 按钮。

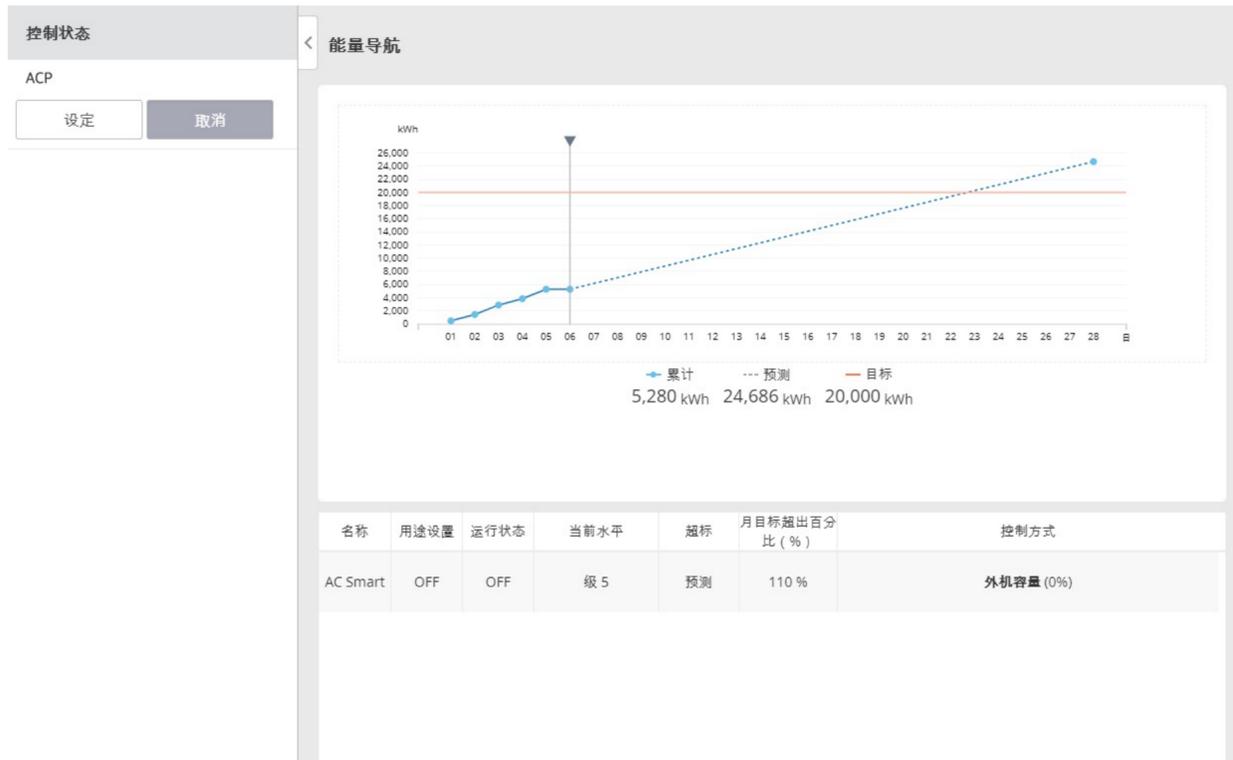
(在 AC Smart 5 设备中，它存储在 USB 中。)

### 注意

- 只有安装了 PDI 时方可查看用电情况。
- 如果安装了 PDI，注意室内机，ERV DX, Heating等设备的中央集控地址设置，避免重复。
- 此程序中显示的用电量可能与实际账单中的用电量稍有不同。
- 在 [设置]-[安装]中，只能对设定了 [用电量] 的 ACP 进行监测。
- 只有安装了 GDI 时方可查看用气情况。
- 此程序中显示的用气量可能与实际账单中的用气量稍有不同。
- 在 [设置]-[安装]下，仅已设置 [用气量] 的 ACP 可以被监控。
- 能源监控器只会保留最近一年的数据。
- 小时数据可提供到最近 3 个月。

## 能量导航

能量导航功能可以根据能源用量预估和当前能源使用量，对每个水平的 [外机容量]/[室内机运行率]/[室内机] 进行控制，这样就能够对能源月用量进行管理使其低于目标用量。



## 添加目标用量

您可以添加 能量导航的目标用量。

1. 在左侧菜单选项卡中，单击 能源 > [能量导航] 菜单。
2. 在控制状态选项卡中，单击要添加目标用量的组。
3. 单击右上方的 [设置目标] 按钮。
  - 出现目标用量设置窗口。

能量目标管理 取消 应用

输入方式  直接输入  相比上一年的下降率

月目标用量				下降率
批量输入 <input style="width: 100px;" type="text"/> <span style="float: right;">应用</span>				<div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 0 auto;">100%</div> <div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 5px auto;">上一年</div>
月	目标值	月	目标值	
1月	<input type="text" value="20000"/>	7月	<input type="text" value="20000"/>	
2月	<input type="text" value="20000"/>	8月	<input type="text" value="20000"/>	
3月	<input type="text" value="20000"/>	9月	<input type="text" value="20000"/>	
4月	<input type="text" value="20000"/>	10月	<input type="text" value="20000"/>	
5月	<input type="text" value="20000"/>	11月	<input type="text" value="20000"/>	
6月	<input type="text" value="20000"/>	12月	<input type="text" value="20000"/>	
Total 240000 kwh				

4. 输入每个月的目标用量。
  - 要一次输入所有月份的用量，在批量输入字段中输入目标用量并单击旁边的 [应用] 按钮。
5. 目标用量输入完成后，单击右上方的 [应用] 按钮。
6. 当出现 应用通知窗口时，单击 [检查] 按钮。

## 控制水平设置

您可以设定 能量导航的控制水平。

1. 在左侧菜单选项卡中，单击 能源 > [能量导航] 菜单。
2. 在控制状态选项卡中，单击要设定控制水平的组。
3. 单击右上方的 [设置控制水平] 按钮。
  - 出现“控制水平设置”窗口。

能量导航 > 设置控制水平 取消 应用

设定控制执行方式 自动 手动 帮助

设置控制水平 + 添加水平

水平	超标	月目标超出百分比 (%)	控制方式		删除
1	<input type="text" value="预测"/>	<input type="text" value="70%"/>	<input type="text" value="外机容量"/>	<input type="text" value="90%"/>	<input type="button" value="删除"/>
2	<input type="text" value="预测"/>	<input type="text" value="80%"/>	<input type="text" value="外机容量"/>	<input type="text" value="70%"/>	<input type="button" value="删除"/>
3	<input type="text" value="预测"/>	<input type="text" value="90%"/>	<input type="text" value="外机容量"/>	<input type="text" value="50%"/>	<input type="button" value="删除"/>
4	<input type="text" value="预测"/>	<input type="text" value="100%"/>	<input type="text" value="外机容量"/>	<input type="text" value="0%"/>	<input type="button" value="删除"/>
5	<input type="text" value="预测"/>	<input type="text" value="110%"/>	<input type="text" value="室内机"/>	关   66°F   <input type="button" value="透风"/>   锁定   etc. <input type="button" value="设置"/>	<input type="button" value="删除"/>

4. 选择控制执行方式设置。

类别	说明
自动	在警告时，自动执行为每个水平设定的控制方式。
手动	在警告时，选择是否执行为每个水平设定的控制方式。

5. 单击控制水平设置窗口中的 [+添加水平] 按钮。
6. 设定控制水平设置类别。

类别	说明
超标	您可以在用量预估和实际用量之间进行选择。
月目标超出百分比	您可以在 70~130% 之间以 10% 为最小单位进行设定
	外机容量：您可以在 0~100% 之间以 10% 为最小单位进行设定

控制方式

室内机运行率：您可以在 0~100% 之间以 10% 为最小单位进行设定  
室内机：室内机控制

7. 设置完成后，单击右上方的 **[应用]** 按钮。
8. 当出现 应用通知窗口时，单击 **[检查]** 按钮。

## 峰值/需量控制

在控制状态中，您可以检查 ACP 名称、控制方式、运行方式、控制状态和目标运行率。



## 峰值控制

峰值控制是设置目标运行率的功能，以限制最大功耗和控制总功耗不超过目标运行率。为了防止总功耗超过目标运行率，制冷模式根据优先级自动转换为送风模式，制热模式自动停止，因此节省了功耗。

- 在左侧菜单选项卡中，单击 **能源 > [峰值/需量控制]** 菜单。
  - 显示 峰值/需量控制界面。
- 在 ACP 列表中，选择要控制的 ACP。
  - 小时数据可提供到最近 3 个月。



- 在控制信息显示中，设定所需的控制状态。

类别	说明
运行方式	<ul style="list-style-type: none"> <li>室外机容量控制：将目标运行率应用到室外机设备中，以控制室外机容量</li> <li>优先权控制：根据 ACP 下级组的优先权进行控制</li> </ul>
运行率条形图	<ul style="list-style-type: none"> <li>室内机的目标运行率以条形图的形式显示</li> <li>您可以拖动条形图来设定目标运行率</li> </ul>
当前(%)	在所有选定的 ACP 室内机中，它用来标记当前运行设备达到的 %
目标(%)	按 [▲]/[▼] 按钮设定目标运行率
转换时间 (分钟)	<ul style="list-style-type: none"> <li>按 [▲]/[▼] 按钮设定强制运行停止的周期 (以分钟单位)</li> <li>您可以在5~15分钟内以1分钟为最小单位进行设置。</li> </ul>
运行状态	显示设备名称/是否运行/当前温度/设定温度/模式信息

- 要应用控制设置，单击 **[应用]** 按钮。
  - 设定控制状态被保存。
- 要以设定状态启动相应的组，单击组列表的 **[开]** 按钮。要停止相应组的运行，单击组列表的 **[关]** 按钮。

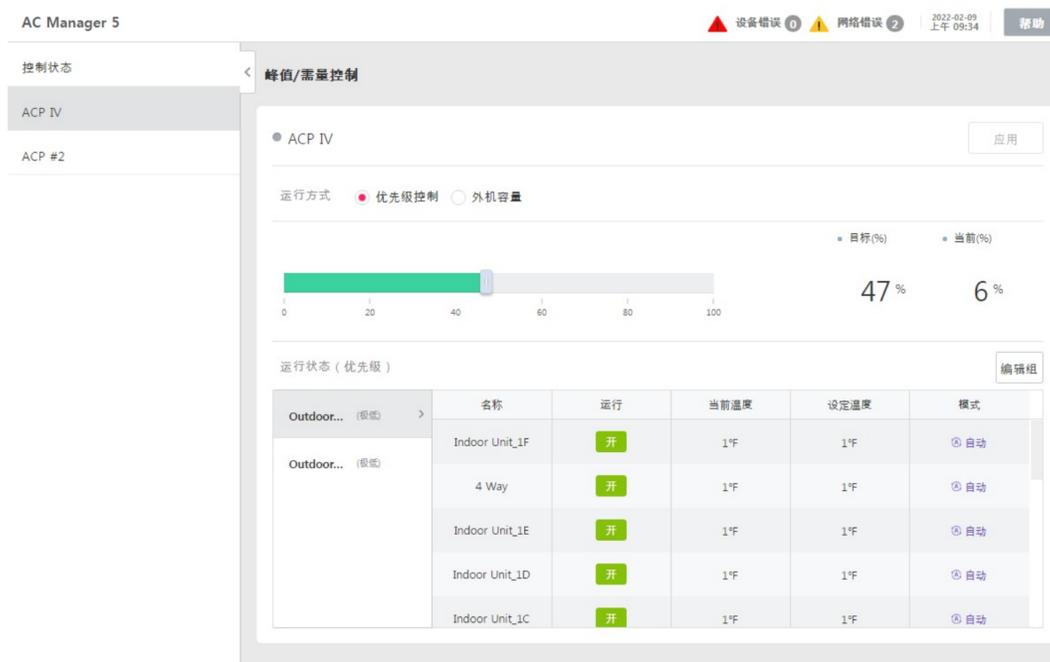
### 注意

如需更改控制设置，首先停止峰值控制操作。（停止峰值控制 → 更改并应用控制设置 → 运行峰值控制）

## 需量控制

您可以观察能源使用量的变化趋势，并对超出预设能源用量的能源使用进行限制。当设定为需量控制时，在预计将超出预设能源用量时，将会从最不必要的设备开始停止运行并对能源使用进行分配，这样就可以节省能源使用量。

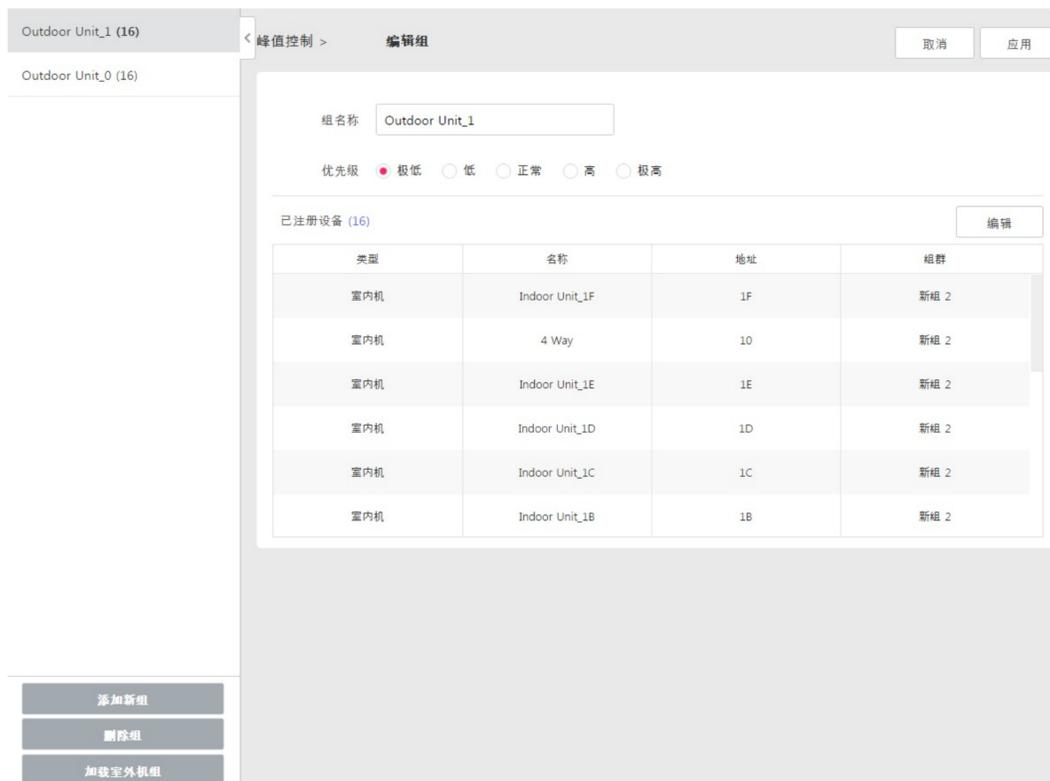
- 在需量控制菜单中，您可以检查需量控制状态或对组进行编辑。但是，您无法设定目标运行率、运行切换时间和运行控制。



## 添加/编辑峰值组

您可以添加并编辑峰值控制组。

- 在左侧菜单选项卡中，单击 **能源 > [峰值/需量控制]** 菜单。
  - 显示 峰值/需量控制界面。
- 单击 **[编辑组]** 按钮。
  - 显示 编辑组界面。



类别	说明
组名称	输入要添加的组的名称。
优先级	在“极低/低/正常/高/极高”中选择所需的优先级。
<b>[编辑]</b>	打开设备编辑窗口（添加或删除设备列表）
已注册设备	显示在组中注册的设备列表
<b>[添加新组]</b>	添加进行峰值控制的组
<b>[删除组]</b>	删除所选的峰值组
<b>[加载室外机组]</b>	应用到在 ACP 中注册的室外机设备中

- 在组名称输入字段中输入相应组的名称。
- 选择所需的优先级。
  - 控制级别如下：非常低 → 低 → 中 → 高 → 非常高
- 要注册该设备，单击 **[编辑]** 按钮。
  - 出现 编辑设备弹出窗口。
- 在未注册设备列表中，单击要注册设备的复选框并单击 **[◀]** 按钮。
  - 对于峰值控制，只有室内机可以被注册。
  - 要一次注册多个设备，单击要注册设备的复选框，然后单击 **[◀]** 按钮。
  - 所选设备被添加到注册设备列表中。

已注册设备 (16)

<input type="checkbox"/>	名称	ACP	组群
<input type="checkbox"/>	Indoor Unit_1F	ACP IV	新组 2
<input type="checkbox"/>	4 Way	ACP IV	新组 2
<input type="checkbox"/>	Indoor Unit_1E	ACP IV	新组 2
<input type="checkbox"/>	Indoor Unit_1D	ACP IV	新组 2

未注册设备 (0)

ACP ▼



取消

应用

7. 要应用到 编辑设备弹出窗口中, 单击 [应用] 按钮。

8. 要保存设定内容, 单击 峰值/需量控制画面中的 [应用] 按钮。

## 能源单位成本

在“能源单位成本”菜单中，您可以检查“优先模式总计控制”选项以及当前设置的电费和气费状态。

### 注意

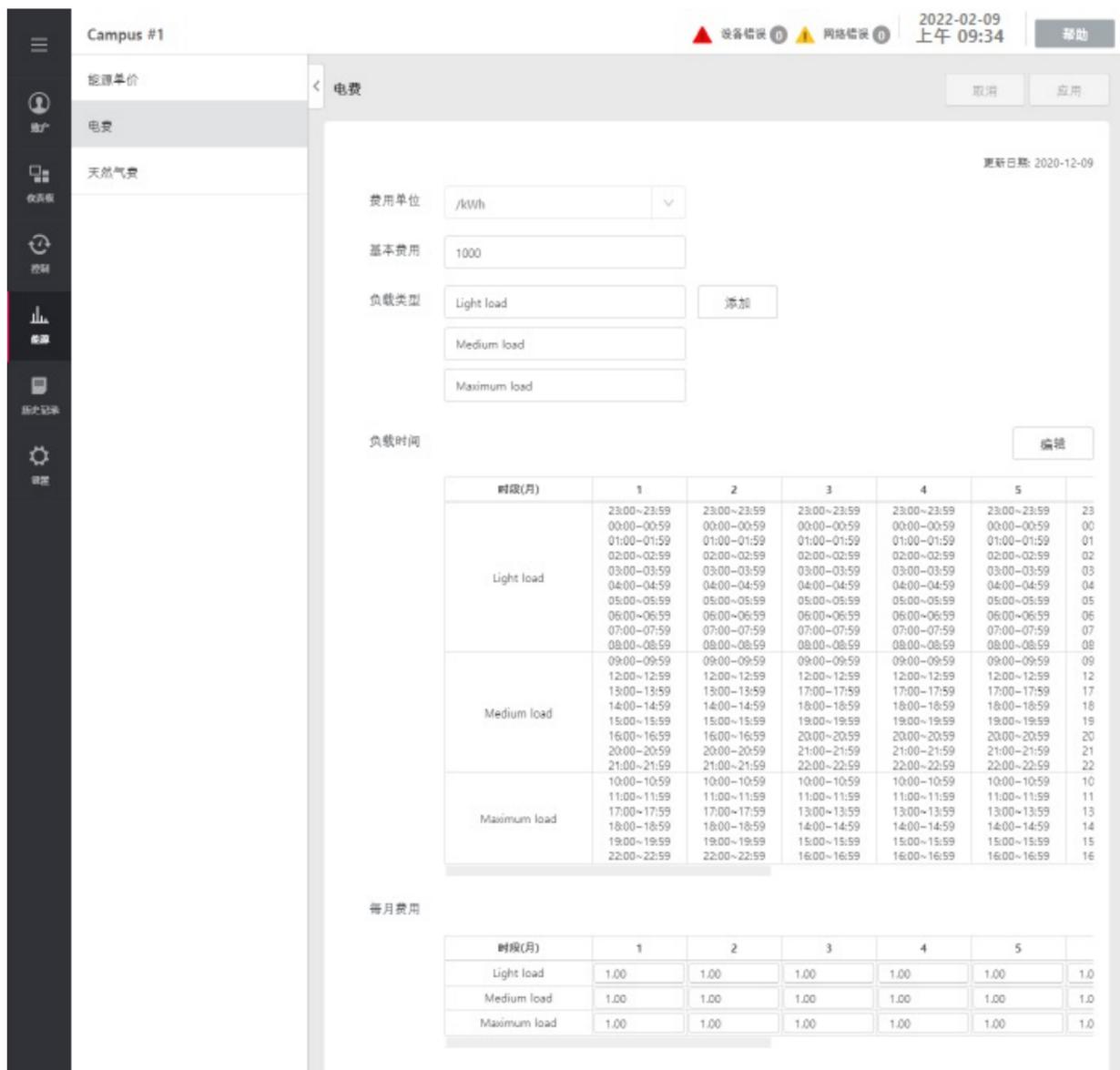
- 能源单位成本是 GHP 混合动力室外机组的独有菜单。当其他室外机组连接时，不可用。



## 电费

电费选项允许您根据负载小时数设置每月费用。

每月电费必须根据电费表确定。



- 您可以编辑基本费用。
- 您可以添加或编辑负载类型。
- 您可以编辑每月费用。

## 编辑负载小时数

您可以根据月份和负载类型编辑负载小时数。

### 负载时间 编辑

时间 选择

- 全部 (10)
- 23:00~23:59
- 00:00~00:59
- 01:00~01:59
- 02:00~02:59

月 选择

1

选择负载

Light Load

全部

取消

应用

类别	说明
选择月份	选择某个月份来编辑负载小时数。
选择负载	选择所选月份的负载类型。
选择小时	选择要应用于所选月份和负载的小时数。

1. 选择某个月份来编辑负载小时数。
2. 选择所选月份的负载类型。
3. 选择要应用于所选月份和负载的小时数，单击复选框，然后按 > 按钮。

### 注意

- 如果未应用所有小时数，“应用”按钮不会被激活。
- 对于每月费用，您最多可以输入六分位，但该值不能超过 655.35。
- 当您应用“编辑电费”选项时，将应用更新日期。

## 气费

气费选项允许您根据负载小时数设置每月费用。

每月气费必须根据气费表确定。

1	2	3	4	5	6
1.00	1.00	1.00	1.00	1.00	1.00

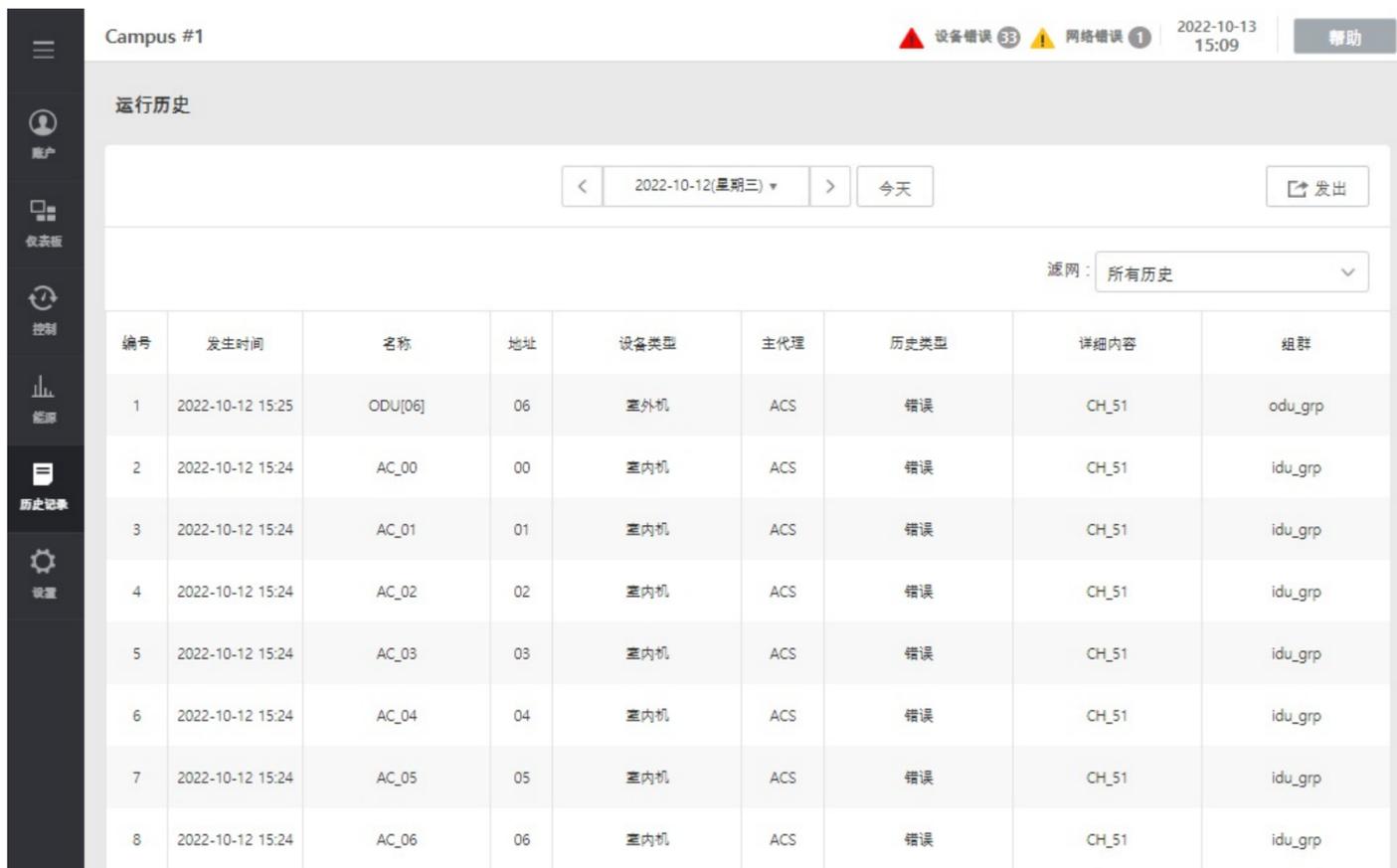
### 注意

- 对于每月费用，您最多可以输入六分位，但该值不能超过 65.535。
- 当您应用“编辑气费”选项时，将应用更新日期。

## 运行历史

您可以查看用户/自动控制的运行历史、连接设备的状态变化和错误状态。

- 在左侧菜单选项卡中，单击 [历史记录] > [运行历史] 菜单。
  - 显示 运行历史界面



- 设定查看时段。

类别	说明
查看时段	<ul style="list-style-type: none"> <li>选定日：查看所选日期的历史记录</li> <li>时段：查看所选时段的历史记录</li> <li>今日：查看今日历史记录</li> </ul>

- 在筛选类别中，选择设备或历史类型。
  - 您可以单击该复选框选择多个信息。
  - 您可以通过 [初始化] 按钮来初始化所选内容。
- 设备和历史类型选择完成后，单击 [应用] 按钮。
  - 显示设定时段的运行历史。

显示的运行部件细节	运行细节 (中央控制器)	显示的运行部件细节	运行细节 (中央控制器之外的单元)
ACS	控制器的监控	遥控器	中央控制器之外的其他单元进行的控制历史 (例如, 遥控器/干触点/室内机和室外机的自动逻辑)
Admin	中央控制器的用户控制细节	BMS	BACnet 进行的控制
辅机控制器	从属中央控制器进行的控制	Lonworks	LonWorks 进行的控制
ACM	中央控制器的用户控制细节	TMS EMS 发动机控制	TMS 的 EMS 发动机进行的控制
时间表	中央控制器的调度表进行的控制	TMS 节能控制	TMS 的节能功能进行的控制
自动模式转换	中央控制器的自动切换操作进行的控制	TMS Mobile	TMS 移动用户进行的控制
维持	中央控制器的温度限制操作进行的控制	TMS Web	TMS 网络用户进行的控制
峰值控制	中央控制器的峰值控制操作进行的控制	KEPCO	韩国电力公司进行的控制
清除峰值	中央控制器的峰值去除命令进行的控制		
持续运行时间限制	中央控制器的运行时间限制命令进行的控制		
互锁	中央控制器的设备联锁命令进行的控制		
互锁	中央控制器的设备联锁复制模式进行的控制		
紧急情形	中央控制器的 DI1 Short 进行的控制		
能量导航	中央控制器的能量导航操作控制进行的控制		
Override	中央控制器的室内机 2 组重写函数进行的控制		

## 发送信息

- 在左侧菜单选项卡中，单击 [历史记录] > [运行历史] 菜单。
  - 显示 运行历史界面

Campus #1 设备错误 53 网络错误 1 2022-10-13 15:09 帮助

### 运行历史

< 2022-10-12(星期三) > 今天 [发出]

滤网: 所有历史

编号	发生时间	名称	地址	设备类型	主代理	历史类型	详细内容	组群
1	2022-10-12 15:25	ODU[06]	06	室外机	ACS	错误	CH_51	odu_grp
2	2022-10-12 15:24	AC_00	00	室内机	ACS	错误	CH_51	idu_grp
3	2022-10-12 15:24	AC_01	01	室内机	ACS	错误	CH_51	idu_grp
4	2022-10-12 15:24	AC_02	02	室内机	ACS	错误	CH_51	idu_grp
5	2022-10-12 15:24	AC_03	03	室内机	ACS	错误	CH_51	idu_grp
6	2022-10-12 15:24	AC_04	04	室内机	ACS	错误	CH_51	idu_grp
7	2022-10-12 15:24	AC_05	05	室内机	ACS	错误	CH_51	idu_grp
8	2022-10-12 15:24	AC_06	06	室内机	ACS	错误	CH_51	idu_grp

## 2. 设定查看时段。

类别	说明
查看时段	<ul style="list-style-type: none"> <li>选定日：查看所选日期的历史记录</li> <li>时段：查看所选时段的历史记录</li> <li>今日：查看今日历史记录</li> </ul>

## 3. 单击 [发出] 按钮。

- EXCEL文件, 最多20000个
- 在 AC Smart 5 设备中, 它存储在 USB 中。

## 能源导航历史

您可以查看 能源导航的历史记录并控制运行。

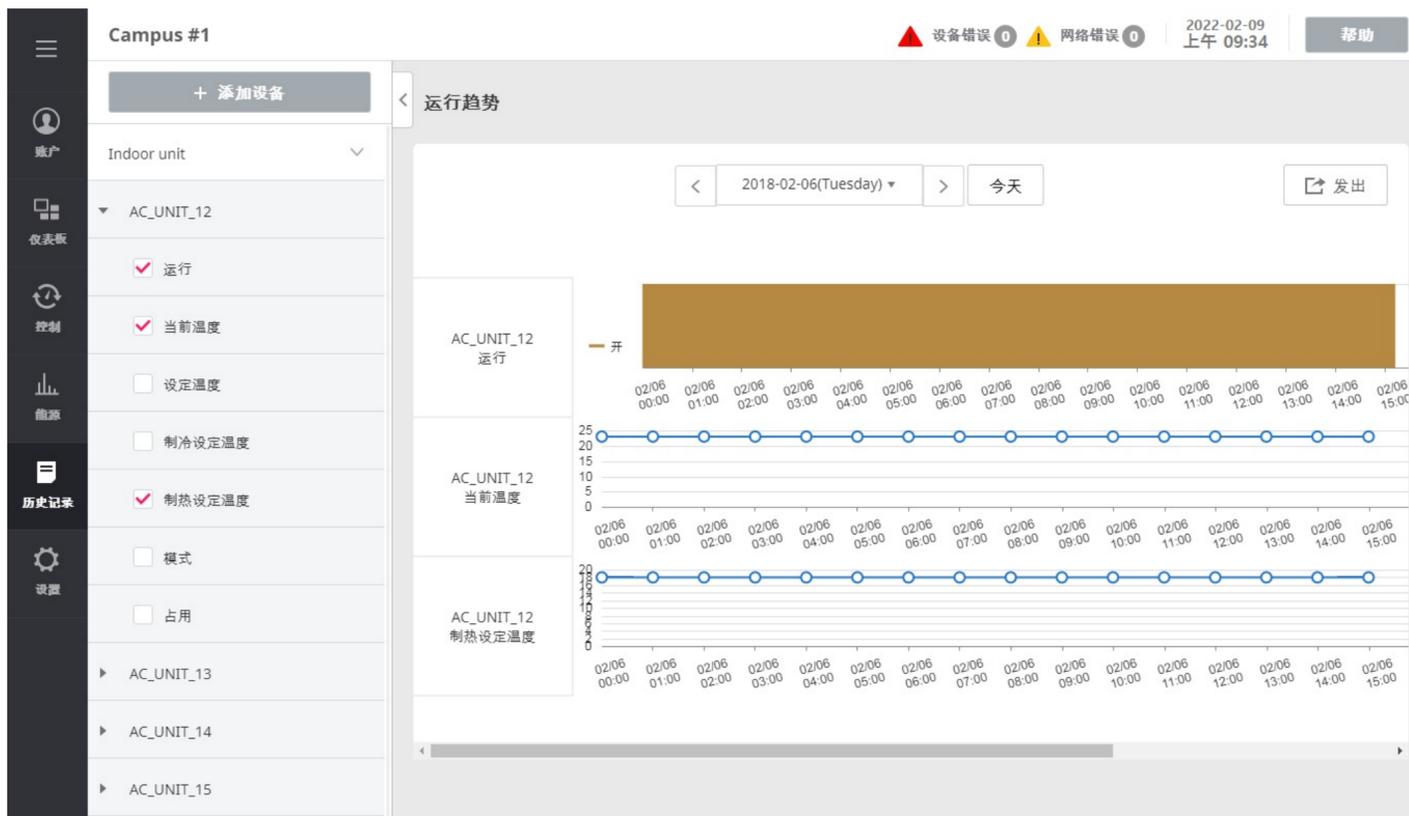
1. 在左侧菜单选项卡中，单击 [历史记录] > [能源导航历史] 菜单。
  - 显示能源导航界面。

能源导航历史				
事件数量 : 53		2016-12-16 ~ 2017-01-16 ▾		查看
编号	发生时间	超出标准	能量警告内容	执行控制选项
1	2017-01-16 15:17:26	预测	超过月目标用量 70%	自动, 外机容量, 90%
2	2017-01-16 15:17:21	预测	超过月目标用量 70%	自动, 外机容量, 暂停
3	2017-01-16 10:17:46	预测	超过月目标用量 70%	自动, 外机容量, 90%
4	2017-01-16 10:00:39	预测	超过月目标用量 130%	自动, 外机容量, 0%
5	2017-01-12 17:39:27	预测	超过月目标用量 70%	自动, 外机容量, 90%
6	2017-01-11 04:07:15	预测	超过月目标用量 80%	自动, 外机容量, 70%
7	2017-01-11 00:37:15	预测	超过月目标用量 90%	自动, 外机容量, 50%
8	2017-01-10 09:37:13	预测	超过月目标用量 80%	自动, 外机容量, 70%
9	2017-01-10 00:22:12	预测	超过月目标用量 90%	自动, 外机容量, 50%
10	2017-01-09 15:12:11	预测	超过月目标用量 80%	自动, 外机容量, 70%

2. 选择要查看历史记录的设备。
3. 设定查看历史记录的时段开始日期和结束日期。
4. 要查看设定内容，单击 [查看] 按钮。
  - 显示设定时段的能源导航历史。

## 运行趋势

“运行趋势”功能提供所选设备过去状态的变化情况，帮助制定合理的现场运行方案。



## 添加设备

您可以添加要查看其运行趋势的设备。

- 在左侧菜单选项卡中，单击 [历史记录] > [运行趋势] 菜单。
  - 显示 运行趋势界面。
- 单击 [+ 添加设备] 按钮。
  - 显示 添加设备界面。
- 在未注册设备列表中，单击要注册设备的复选框并单击 [◀] 按钮。
  - 要一次注册多个设备，单击要注册设备的复选框，然后单击 [◀] 按钮。
  - 所选设备被添加到注册设备列表中。
- 要应用到 编辑设备弹出窗口中，单击 [应用] 按钮。

## 查看信息

您可以查看所选设备的运行趋势信息。

- 在左侧菜单选项卡中，单击 [历史记录] > [运行趋势] 菜单。
  - 显示 运行趋势界面。
- 在设备列表选项卡区域中，选择要查看设备的类别。
- 选择查看运行趋势的时段。



类别	说明

时段

[选定日] 按钮：在迷你日历中选择所需的日期，将其设为基准日期  
[时段] 按钮：设定查看时段的开始日期和结束日期  
• 查看的最长时段为 1 周。  
[今日] 按钮：将今天的日期设为基准日期

## 发送信息

您可以发送已查看设备的运行趋势信息。

1. 在左侧菜单选项卡中，单击 [历史记录] > [运行趋势] 菜单。
  - 显示 运行趋势界面。
2. 在左侧类别中，选择要发送的类别并单击右上方的 [发出] 按钮。  
(在 AC Smart 5 设备中，它存储在 USB 中。)

### 注意

每个设备可储存的信息如下。

- 室内机：运行、当前温度、设定温度、制冷设定温度、制热设定温度、运行模式、占用状态, PM10, PM2.5, PM1.0
- ERV：运行、模式、当前温度（仅适用于ERV DX）、设定温度（仅适用于ERV DX）、CO<sub>2</sub> 浓度（仅适用于ERV）
- AHU: 运行、模式、设定温度、送风温度、送风湿度、通风温度、通风湿度
- Heating: 运行、进水口温度、出水口温度、热水温度、设定温度、热水设定温度、模式、热水运行
- 冷水机: 运行、进水口温度、出水口温度、模式
- DOKIT: 运行
- DI: 运行
- DO: 运行
- Exp.I/O 的端口：值
- 空气净化器：运行, 异味, PM 10, PM 2.5, PM 1.0

## 系统信息

您可以查看室内机/室外机和冷水机的系统信息。

## 室外机

提供所选室外机的系统信息数据。

1. 在左侧菜单选项卡中，单击 [历史记录] > [系统信息] 菜单。

- 显示 系统信息界面。



类别	说明
室外机系统信息	主机/辅机室外机信息显示
室内机系统信息	显示连接到室外机的所有室内机信息

2. 在室外机列表中，选择要检查系统信息的室外机。

- 显示相应室外机的系统信息。

### 注意

只有安装了提供系统信息的室外机时，您才能够查看。

## 冷水机

提供所选冷水机的系统信息数据。

1. 在左侧菜单选项卡中，单击 [历史记录] > [系统信息] 菜单。

- 显示 系统信息界面。

2. 在冷水机列表中，选择要检查系统信息的冷水机。

- 显示相应冷水机的系统信息。

室外机 Chiller

循环

- ACP
- Scroll Air STD
- Scroll Air INV
- Absorption
- Screw Air
- Screw Water
- Scroll Water
- Turbo**

ACP #2

Turbo 循环信息

查看全部	蒸发器	压缩机	冷凝器
模式	非制冷	蒸发器出水温度	0 °C
运行	OFF	电机电流	0 A

蒸发器

流量	AC Smart	饱和温度	0 °C
进水水温	0 °C	压力	0 kgf/cm <sup>2</sup>
出水温度	0 °C	-	-

压缩机

电机电流	0 A	轴承温度	0 °C
油温	0 °C	排风温度	0 °C

冷凝器

流量	OFF	饱和温度	0 °C
进水水温	0 °C	压力	0 kgf/cm <sup>2</sup>
出水温度	0 °C	-	-

## 设备设置

您可以更改 ACP 设置、添加设备或更改已注册设备的设置。

## 编辑 ACP

您可以改变 ACP 的设置。

1. 在左侧菜单选项卡中，单击 [设置] > [安装] 菜单。
  - 显示 设备设置界面。



2. 在设备列表中，选择 ACP。
  - 显示 ACP 编辑界面。
  - 在设备编辑区域中，您可以更改 ACP 设置信息。

注册状态	室外机: 4EA 室内机: 16EA
能量管理	<input checked="" type="radio"/> 峰值控制 <input type="radio"/> 峰值&能量导航 <input type="radio"/> 需量控制 <small>*如果设定了需量控制，紧急导航就不会工作。</small>
运行时间	<input type="button" value="设定"/> <input type="button" value="取消"/>
用电量	<input type="button" value="设定"/> <input type="button" value="取消"/>
用气量	<input type="button" value="设定"/> <input type="button" value="取消"/>
通讯类型	<input type="text" value="LGAPI"/> <input type="button" value="v"/>
LGAP设置	<input type="text" value="LGAPI"/> <input type="button" value="v"/>
2设定自动模式	<input type="text" value="Master"/> <input type="button" value="v"/>
CH5 设置	<input type="text" value="中央控制器"/> <input type="button" value="v"/>
CH6 设置	<input type="text" value="MODBUS_9600"/> <input type="button" value="v"/>
地址锁	<input type="text" value="MODBUS_9600"/> <input type="button" value="v"/>
	<input type="text" value="取消"/> <input type="button" value="v"/>

类别	说明
能量管理	在“峰值控制 / 峰值&能量导航/ 需量控制”中进行选择 设定需量控制时，能量导航不可用。
运行时间	运行时间收集和查看设置/取消
用电量	电使用量收集和查看设置/取消
用气量	燃气使用量收集和查看设置/取消
通讯类型	LGAPI / LGAPII 设置
LGAP设置	通信主/从设置功能，它仅在 AC Smart 中可用
2设定自动模式	按 [▼] 按钮选择 2设定自动模式的主代理 中央控制器/室内机
通道 5 设置	按 [▼] 按钮选择要连接到 CH5 端口的设备通信类型 <ul style="list-style-type: none"> <li>LGAP_AHU：适用于 AHU (一般装置、所有空气净化装置、余热回收装置)连接</li> <li>MODBUS_9600, MODBUS_19200：适用于 AHU (模块化空调、模块化空气净化装置、DOAS)、Exp.I/O 和冷水机连接</li> </ul>
通道 6 设置	按 [▼] 按钮选择要连接到 CH6 端口的设备通信类型 <ul style="list-style-type: none"> <li>MODBUS_9600, MODBUS_19200：适用于 AHU (模块化空调、模块化空气净化装置、DOAS)、Exp.I/O 和冷水机连接</li> </ul>
地址锁	当设置后，您无法通过线控器改变室内机和ERV的地址

**注意**

某些型号不支持 LGAPII。

- 输入完成后，单击 [应用] 按钮。
- 单击 [全部发送] 按钮。

## 自动设置

您可以自动搜索连接到 ACP 的设备并注册。

1. 在左侧菜单选项卡中，单击 [设置] > [安装] 菜单。
  - 显示 设备设置界面。
2. 在设备列表中，选择 ACP 并单击 [自动搜索] 按钮。
3. 要在现有设置上覆盖 ACP 设备设置，请单击 [检查] 按钮。
  - 应用 ACP 设备设置状态。
4. 自动设置完成后，在设备编辑之前，单击 [全部发送] 按钮。

### 注意

- 自动搜索大约需要 10 分钟。
- 一些 AHU (组合式空调器、DOAS)、冷水机和 Exp.I/O 不支持自动设置功能。
- 在设备注册后当在设备编辑窗口中选择“使用”时，将激活 Exp.I/O。

## 添加设备

您可以另外注册新设备到设备列表。

1. 在左侧菜单选项卡中，单击 [设置] > [安装] 菜单。
  - 显示 设备设置界面。
2. 单击 [+ 添加设备] 按钮。
  - 显示 添加设备界面。

取消 应用

选择要添加到 ACP 的设备类型

室外机  HRV  AWHP  
 AHU  Chiller  DOKIT  
 DI  DO  EXP. I/O  
 空气净化器

ACP 名称 ACP

地址

名称

型号 ODU

容量 3

激活设备控制 (图标)  设定  取消

全部添加 EA

3. 在设备列表中，选择要添加设备的上级组。
  - 当在设备列表中选择了 ACP 后，您就可以添加室外机、ERV、Heating、AHU、冷水机、开/关设备、DI、DO 和 Exp.I/O。
  - 在设备列表中，当室外机选定之后，您就只能添加室内机。
4. 在 添加设备区域中，输入要添加设备的设置信息。
  - 根据所选设备，针对相应设备显示不同的设置类别。有关每个设备的设置信息，请参见下一页。
5. 要保存设定内容，单击 [应用] 按钮。
6. 要完成添加设备，单击 [全部发送] 按钮。

## 设备编辑

在设备列表中，您可以编辑已注册的设备。

1. 在左侧菜单选项卡中，单击 [设置] > [安装] 菜单。
  - 显示 设备设置界面。
2. 在设备列表中，选择要编辑的设备。
3. 显示 设备设置界面。
4. 编辑设备设置信息。
  - 根据所选设备，针对相应设备显示不同的设置类别。有关每个设备的设置信息，请参见下一页。

5. 要保存设定内容，单击 [应用] 按钮。
6. 要完成设备编辑，单击 [全部发送] 按钮。

## 删除设备

在设备列表中，您可以删除已注册的设备。

1. 在左侧菜单选项卡中，单击 [设置] > [安装] 菜单。
  - 显示 设备设置界面。
2. 在组列表中，选择要删除的组并单击 [删除] 按钮。
3. 当出现 删除组弹出窗口时，单击 [是] 按钮。
  - 在组列表中，所选的类别被删除。
4. 要完成设备删除，单击 [全部发送] 按钮。

## 每个设备的设置信息

每个设备的设置信息如下。

- ➔ 室外机
- ➔ 室内机
- ➔ ERV
- ➔ Heating
- ➔ AHU
- ➔ 冷水机
- ➔ DOKIT
- ➔ DI/DO
- ➔ Exp.I/O
- ➔ Exp.I/O 低层级设置
- ➔ 空气净化器

室外机

- 室外机
- HRV
- AWHP
- AHU
- Chiller
- DOKIT
- DI
- DO
- EXP. I/O
- 空气净化器

ACP 名称

地址

名称

型号

容量

激活设备控制 (图标)  设定  取消

全部添加

类别	说明
ACP 名称	相应设备的上级 ACP 名称
地址	设备地址
名称	系统中显示的设备名称 <ul style="list-style-type: none"> <li>• 批量添加以“名称_设备地址”的形式显示</li> </ul>
型号	产品型号名称
容量	产品容量
激活设备控制 (图标)	设置是否激活ODU设备图标 <ul style="list-style-type: none"> <li>• 仅当ODU激活设备控制 (图标) 设置时, ODU设备才会显示在组设置, 设备控制, 设备错误和运行历史中。</li> </ul>
添加全部	选中此复选框时, 所有选定的设备都被添加

室内机

选择要添加到 ODU[00] 的设备类型

室内机

---

ACP 名称

室外机名称

地址

名称

型号

类型  ▼

容量

---

全部添加

类别	说明
ACP 名称	相应设备的上级 ACP 名称
室外机名称	连接到相应设备的室外机名称
地址	设备地址
名称	系统中显示的设备名称 <ul style="list-style-type: none"> <li>批量添加以“名称_设备地址”的形式显示</li> </ul>
型号	产品型号名称
类型	室内机类型选择
容量	产品容量
添加全部	选中此复选框时，所有选定的设备都被添加



# ERV

- 室外机
- ERV
- Heating
- AHU
- Chiller
- DOKIT
- DI
- DO
- EXP. I/O
- 空气净化器

ACP 名称

类型

室外机地址

地址

名称

型号

容量

全部添加

类别	说明
ACP 名称	相应设备的上级 ACP 名称
室外机地址	设备连接的室外机地址 <ul style="list-style-type: none"> <li>在 ERV DX / 落地式通风口的情况下激活</li> </ul>
类型	ERV类型选择
地址	设备地址
名称	系统中显示的设备名称 <ul style="list-style-type: none"> <li>批量添加以“名称_设备地址”的形式显示</li> </ul>
型号	产品型号名称
容量	产品容量
添加全部	选中此复选框时，所有选定的设备都被添加

## Heating

- 室外机   
  ERV   
  Heating   
  AHU   
  Chiller  
 DOKIT   
 DI   
 DO   
 EXP. I/O   
 空气净化器

ACP 名称

室外机地址

地址

名称

型号

容量

控制方式  热水控制   
 进水/出水控制   
 全部

当前温度 1  
 出水   
 进水   
 空气   
 热水   
 不使用

当前温度 2  
 出水   
 进水   
 空气   
 热水   
 不使用

当前温度 3  
 出水   
 进水   
 空气   
 热水   
 不使用

设定温度  
 进水/出水   
 空气

全部添加

类别	说明
ACP 名称	相应设备的上级 ACP 名称
室外机地址	设备连接的室外机地址
地址	设备地址
名称	系统中显示的设备名称 • 批量添加以“名称_设备地址”的形式显示
型号	产品型号名称
容量	产品容量
控制方式	选择控制方式
当前温度 1	第一个显示的当前温度类型
当前温度 2	第二个显示的当前温度类型
当前温度 3	第三个显示的当前温度类型
设定温度	要控制的设定温度类型
添加全部	选中此复选框时，所有选定的设备都被添加

## AHU

取消

应用

选择要添加到 ACP 的设备类型

- 室外机       ERV       Heating       AHU       Chiller  
 DOKIT       DI       DO       EXP. I/O       空气净化器

ACP 名称

地址

名称

型号

- AHU 类型     正常     所有室外空气设备     多风扇常规     多风扇所有室外空气设备     DOAS(AR-DE)  
 DOAS(AR-DR)     DOAS(AR-ND)     Comm.Kit(SA)     分割 DOAS(ARND/DB)     分割 DOAS(ARND/DC)  
 Standard AHU

- 附加功能     无     自动通风     加湿     自动通风, 加湿

- 室温     送风标准     通风标准

全部添加

EA

类别	说明
ACP 名称	相应设备的上级 ACP 名称
地址	设备地址
名称	系统中显示的设备名称 • 批量添加以“名称_设备地址”的形式显示
型号	产品型号名称
AHU 类型	选择 AHU 类型
附加功能	选择要添加的功能
室温	在送风或通风之间, 选择所需的室内温度设置标准
添加全部	选中此复选框时, 所有选定的设备都被添加

## 设置 Multi V 连锁节能控制

AHU 类型  正常  所有室外空气设备  多风扇常规  
 多风扇所有室外空气设备  DOAS(AR-DE)  
 DOAS(AR-DR)  DOAS(AR-ND)  Comm.Kit(SA)  
 分割 DOAS(ARND/DB)  分割 DOAS(ARND/DC)

室温  送风标准  通风标准

Multi-V 连锁节能  设定  取消

节能步骤

选择设备

类型	名称	地址	组群
室外机	ODU_00	00	-
室外机	ODU_01	01	-

全部添加

类别	说明
设置Multi V 连锁节能控制	激活/停用Multi V 连锁节能控制 <ul style="list-style-type: none"> <li>设置Multi V 连锁节能控制可激活节能步骤和设备选择选项。</li> </ul>
节能步骤	选择步骤 1~步骤 3 中的节能步骤
选择设备	选择应用Multi V 连锁节能控制的室外设备

**注意**

- 只有 SPLIT DOAS(ARND/DB) 可用于Multi V 连锁节能控制。
- 当Multi V 连锁节能控制运行时，交换器、再热交换器、能量回收轮可自动开关。

➔ Multi V 连锁节能控制

## SPLIT DOAS(ARND/DB)

项目	描述
查看详情	单击 [查看详情] 按钮, 查看详细信息 (手机不可用)
运行状态	<ul style="list-style-type: none"> <li>[开始运行] 按钮: 启动设备运行</li> <li>[停止运行] 按钮: 停止设备运行</li> </ul>
目标温度	按 [▲]/[▼] 按钮设置目标温度
已占用	将 DOAS 管理的空间设置为已占用或闲置的功能 <ul style="list-style-type: none"> <li>[已占用] 按钮: 设置为已占用</li> <li>[闲置] button: 设置为闲置</li> </ul>

## SPLIT DOAS(ARND/DC)

项目	描述
查看详情	单击 [查看详情] 按钮, 查看详细信息 (手机不可用)
	<ul style="list-style-type: none"> <li>[开始运行] 按钮: 启动设备运行</li> </ul>

运行状态	<ul style="list-style-type: none"><li>• <b>[停止运行]</b> 按钮：停止设备运行</li></ul>
目标温度	按 <b>[▲]/[▼]</b> 按钮设置目标温度
已占用	将 DOAS 管理的空间设置为已占用或闲置的功能 <ul style="list-style-type: none"><li>• <b>[已占用]</b> 按钮：设置为已占用</li><li>• <b>[闲置]</b> button: 设置为闲置</li></ul>

## Multi V 连锁节能控制

根据Multi V的运行状态和室内外空气温度/湿度随时调整DOAS与Multi V运行模式的功能，达到节能的目的。

只有在适宜的室内条件(制冷模式，28℃以下，60%以下的相对湿度)下可以运行的模式，您可以根据实际情况调整所需的湿度与节能程度。

### 注意

- 欲使用Multi V 连锁节能控制，需要一个 DOAS 室内湿度传感器。
- 只有在制冷或除湿模式下运行 DOAS 且所有室内设备都处于制冷运行状态时，才能进行节能运行。
- 节能步骤：接近步骤 3 时，除湿功能减弱，节能功能加强。

➔ 设置Multi V 连锁节能控制

## 冷水机

- 室外机
- AHU
- DI
- 空气净化器
- HRV
- Chiller
- DO
- AWHP
- DOKIT
- EXP. I/O

ACP 名称

地址

名称

类型

全部添加

类别	说明
ACP 名称	相应设备的上级 ACP 名称
地址	设备地址
名称	系统中显示的设备名称 • 批量添加以“名称_设备地址”的形式显示
类型	选择冷水机类型
添加全部	选中此复选框时，所有选定的设备都被添加

DOKIT

- 室外机
- AHU
- DI
- 空气净化器
- HRV
- Chiller
- DO
- AWHP
- DOKIT
- EXP. I/O

ACP 名称

地址

名称

全部添加  EA

类别	说明
ACP 名称	相应设备的上级 ACP 名称
地址	设备地址
名称	系统中显示的设备名称 • 批量添加以“名称_设备地址”的形式显示
添加全部	选中此复选框时，所有选定的设备都被添加

## DI/DO

- 室外机
- AHU
- DI
- 空气净化器
- HRV
- Chiller
- DO
- AWHP
- DOKIT
- EXP. I/O

ACP 名称

地址

名称

全部添加  EA

类别	说明
ACP 名称	相应设备的上级 ACP 名称
地址	设备地址
名称	系统中显示的设备名称 <ul style="list-style-type: none"><li>批量添加以“名称_设备地址”的形式显示</li></ul>
添加全部	选中此复选框时，所有选定的设备都被添加

### 注意

- DI1 端口只能用于紧急情况，不能配置为其他用途。
- 除紧急情况外，DI1 端口必须始终处于打开状态。
- DI1 端口短路时，警报会响起，所有连接到该端口的设备都会停止。

Exp.I/O

- 室外机
- HRV
- AWHP
- AHU
- Chiller
- DOKIT
- DI
- DO
- EXP. I/O
- 空气净化器

ACP 名称

ACP

类型

ACS I/O(14)

地址

※ 有关各类型的详细地址范围，请参阅帮助（用户手册）中的 [使用 (PC)]> [设备设置]> [EXP.IO] 页面。

名称

全部添加

EA

类别	说明
ACP 名称	相应设备的上级 ACP 名称
类型	选择设备类型
地址	设备地址 <ul style="list-style-type: none"> <li>• ACS I/O 的地址范围：01 ~ F7</li> <li>• ACU UIO 的地址范围：60 ~ 67</li> <li>• ACU UI 的地址范围：70 ~ 77</li> <li>• ACU UO 的地址范围：80 ~ 87</li> </ul>
名称	系统中显示的设备名称 <ul style="list-style-type: none"> <li>• 批量添加以“名称_设备地址”的形式显示</li> </ul>
添加全部	选中此复选框时，所有选定的设备都被添加

Exp.I/O 低层级设置

AO[F0/00]
删除 应用

---

是否使用  使用  不使用

ACP 名称

设备类型

地址

名称

图标  ▼

I/O 类型  VOL

信号边界

▼

使用

温度  湿度  打开  水位  运行率  浓度  压力

单位符号

°C  °F

显示边界

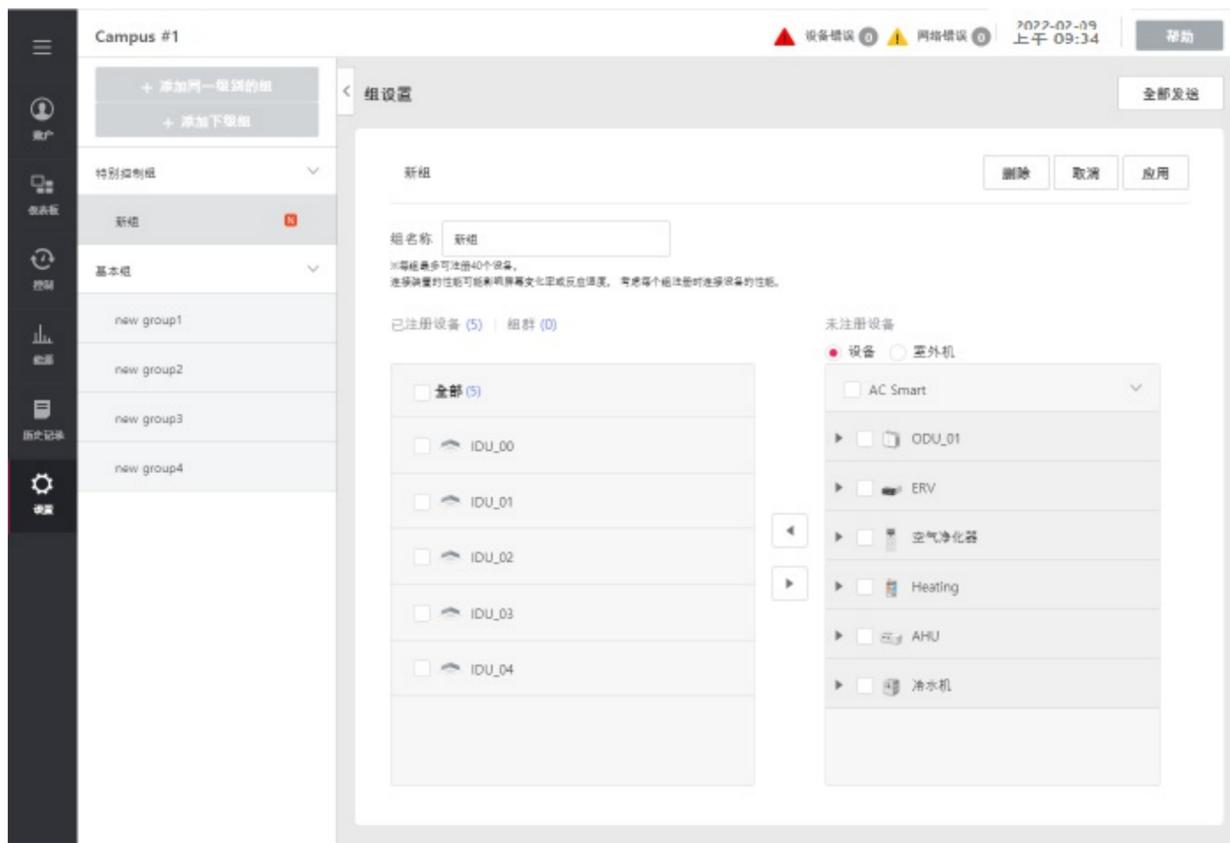
Min  Max

修正值

类别	说明
是否使用	选择是否使用此设备
ACP 名称	相应设备的上级 ACP 名称
设备类型	设备类型
地址	设备地址
名称	设备名称
图标	选择图标类型
I/O 类型	选择 I/O 类型 <ul style="list-style-type: none"> <li>• AO : VOL</li> <li>• UI : BI, VOL, CUR, PT1000, NTC10K, NI1000 (但是, 当 EXP / IO 类型为 ACU UIO, ACU UI 时, 可以从 BI 或 VOL 中选择。)</li> <li>• DO : BI</li> <li>• DI : BI</li> </ul>
信号范围	选择信号范围
使用	选择设备的用途 (根据 I/O 类型, 用途选项会有不同) <ul style="list-style-type: none"> <li>• 状态信息 : 运行/停止、短路/开路、警告/正常、关闭/打开、打开/关闭、占用/未占用、1/0</li> <li>• 数值信息 : 温度、湿度、打开、水位、运行率、浓度、压力</li> </ul>
单位符号	选择单位符号 根据用途选择, 单位符号将灵活变化
显示边界	最大/最小 值输入
修正值	修正值输入

## 组设置

您可以根据用户使用情况添加/删除创建的管理组。



## 添加组

您可以添加新组。

1. 在左侧菜单选项卡中，单击 [设置] > [组设置] 菜单。
  - 显示 组设置界面。
2. 选择一个组，然后单击“添加组”按钮。
  - 选择[+ 添加子组]，以便创建子组。
  - 选择[+ 添加同级组]，以便创建同级组。
3. 在组名称输入字段中输入组名称。
4. 要在设备列表中注册新设备，在未注册设备列表中，单击要注册设备的复选框并单击 [◀] 按钮。
5. 要保存设定内容，单击 [应用] 按钮。
6. 要完成组添加，单击 [全部发送] 按钮。

## 组编辑

您可以编辑组。

1. 在左侧菜单选项卡中，单击 [设置] > [组设置] 菜单。
  - 显示 组设置界面。
2. 在组列表中，选择要编辑的组。
3. 编辑组信息。
4. 要保存设定内容，单击 [应用] 按钮。
5. 要完成组编辑，单击 [全部发送] 按钮。

## 删除组

在组列表中，您可以选择并删除所需的组。

1. 在左侧菜单选项卡中，单击 [设置] > [组设置] 菜单。
  - 显示 组设置界面。
  - 在组列表中，选择要删除的组并单击 [删除] 按钮。
2. 当出现 删除组弹出窗口时，单击 [是] 按钮。
  - 所选的组被删除。
3. 要完成组删除，单击 [全部发送] 按钮。

## 系统设置

您可以更改系统设置。

- 在左侧菜单选项卡中，单击 [设置] > [系统设置] 菜单。
  - 显示 系统设置界面。
- 设定系统。

系统设置
取消 应用

标题

语言  ▼

空气质量指数  ▼

日期格式  ▼

时间格式  ▼

温度  ▼

设置制冷/制热的最低温度。  ▼

仅适用于制冷/制热模式。

使用能量导航  设定  取消

用电量统计基准日期  ▼

类别	说明
标题	在输入字段中输入所需的名称
语言	按 [▼] 按钮选择所需语言 (한국어/ English/ Español/ Português/ Italiano/ Deutsch/ Türkçe/ Polski/ русский/ Français/ 中文/ Čeština/ Українська)
空气质量指数	选择空气质量指数对应的国家。 (한국/Global/USA/中国/India)
日期格式	您可以设定日期格式。(YYYY-MM-DD / MM-DD-YYYY / DD-MM-YYYY)
时间格式	您可以设定时间格式。(12 / 24)
温度	按 [▼] 按钮选择所需的控制温度单位(摄氏 0.5°C / 摄氏 1°C / 华氏 1°F)
制冷/制热下限温度设定	按 [▼] 按钮选择所需的制冷/制热下限温度(16°C / 18°C)
使用能量导航	选择是否使用 能量导航
能源导航基准日期	按 [▼] 按钮选择所需的日期 <ul style="list-style-type: none"> <li>能源导航月功耗量基准日期设置</li> <li>计算从设定日期开始到下旬前一天的天数</li> </ul>

- 使用“图纸”  设定  取消
- 使用“CO<sub>2</sub> 浓度”小组件  设定  取消
- 使用“舒适”小组件  设定  取消
- 使用“粉尘”小组件  设定  取消
- 使用 AI 操作状态小部件  设定  取消
- 协同控制小部件的使用  设定  取消
- 制冷剂泄漏小部件  设定  取消
- 启用自动切换和温度限制  设定  取消
- 使用风门开度计算公式  设定  取消
- 舒适 - 季节设置  夏季  冬季

类别	说明
使用 '图纸'	选择是否使用 '图纸'
使用“CO <sub>2</sub> 浓度图标	当设置后, 仪表板 CO <sub>2</sub> 图标被激活
使用舒适图标	当设置后, 仪表板舒适图标被激活
使用微尘图标	当设置后, 仪表板微尘图标被激活
使用 AI 操作状态小部件	设置此选项可以激活仪表板上的 AI 操作状态小部件。
协同控制小部件的使用	设置此选项可以激活仪表板上的 协同控制小部件。
制冷剂泄漏小部件	设置此选项可以激活仪表板上的 制冷剂泄漏小部件。
启用自动切换和温度限制	启用自动中央控制切换和温度限制功能。
使用风门开度计算公式	<ul style="list-style-type: none"> <li>选择是否使用风门开度计算公式</li> <li>设定风门开度后, 其工作方式为 OA=EA 和 OA+MIX=90</li> </ul>
舒适季节设置	舒适计算的冬季/夏季设置 当设置夏季时, 在低温下形成舒适环境

- 能量目标管理
- 时间表除外日期设置
- 注册日程表除外设备
- 备份设置数据
- 系统重启
- 发送安装状态

类别	说明
能源目标量设定	用于能源管理的目标能源用量设置 (仪表板)
时间表除外日期设置	设定时间表设置的除外日期
注册日程表除外设备	提前在时间表设置中设定要除外的设备
设置数据备份	<ul style="list-style-type: none"> <li>备份：将数据备份到 PC (在 AC Smart 5 设备中, 它存储在 USB 中。)</li> <li>备份文件应用：使用存储在 PC 中的备份文件恢复数据</li> </ul>
系统重启	重启整个系统
发送安装状态	将安装状态保存到 PC (在 AC Smart 5 设备中, 它存储在 USB 中。)

系统时间 2018-06-18 13:02

日期设置 2018-06-18 ▼

时间设置 12 59

如果更改系统日期或时间，系统将重新启动，并且需要重新登录。

夏令时  设定  取消

开始日期 1月 ▼ 第一 ▼ 星期一天 ▼ 1:00 ▼

结束日期 1月 ▼ 第一 ▼ 星期一天 ▼ 1:00 ▼

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类别	说明
系统时间	检查系统时间
日期设置	您可以设定日期。
时间设置	您可以设定时间。
夏令时设置	夏令时 (夏季时间) 开始和结束日期设置/取消
版本	您可以检查版本。

3. 设置完成后，单击 [应用] 按钮。

- ➔ 设置除外日期
- ➔ 删除除外日期
- ➔ 注册时间表除外设备

#### 注意

- 当系统时间或日期更改时，系统将会重启，您需要重新登录。

## 网络设置

您可以设定或更改网络信息。

- 在左侧菜单选项卡中，单击 [设置] > [网络设置] 菜单
  - 显示 网络设置界面。
- 设定网络信息。

取消 应用

**IPv4 启用**  设置  取消

**IPv4 地址设置**  自动  手动  
如果设备被设为 DHCP，则无法修改 IP 地址。

**IPv4 信息**

IP 地址

子网掩码

基本网关

**IPv6 启用**  设置  取消

**IPv6 地址设置**  自动配置  DHCP  手动  
如果设备被设为 DHCP，则无法修改 IP 地址。

**IPv6 信息**

IPv6 地址

IP 地址

子网前缀长度

**DNS 设置**  自动  手动

首选 DNS

备用 DNS

**MAC 地址**

MAC 地址

**Web Port 设定**

端口号

※ 无用端口是定义为公共端口的端口，或者被 AC Smart 5 使用的端口。

类别	说明
IPv4 启用	IPv4 使用地址 设定/取消
IPv4 地址设置	查看 IPv4 地址设置 自动(DHCP)/手动 如果使用 自动(DHCP)，则可能会更改 IP 地址。因此，我们建议使用手动 IP 地址配置。
IPv4 信息	检查 IPv4 地址
IPv6 启用	IPv6 使用地址 设定/取消
IPv6 地址设置	查看 IPv6 地址设置 自动配置/DHCP/手动 如果使用 DHCP，则可能会更改 IP 地址。因此，我们建议使用自动或手动 IP 地址配置。
IPv6 信息	检查 IPv6 地址
DNS 设置	[自动]：自动设定首选 DNS 和备用 DNS [手动]：用户设定首选 DNS 和备用 DNS
MAC 地址	检查 MAC 地址
Web Port 设定	端口设置(范围：443, 1024~49151)

### 注意

网络设置可以在设备中设置，只有某些设置可以在 Web 中更改。

- 设置完成后，单击 [应用] 按钮。

## 通知设置

您可以设置或更改“错误通知”和“电量通知”。

### 错误通知

您可以设定或更改错误消息。

1. 在左侧菜单选项卡中，单击 [设置] > [通知设置] 菜单。
  - 显示 通知设置界面。
2. 设定错误消息。



类别	说明
电子邮件使用设置	设定/取消选择是否通过电子邮件发送出错设备的地址和错误代码
电子邮件标题	电子邮件标题设置
接收电子邮件地址	输入接收电子邮件地址
出现错误时的发送周期	设置出错时的传输周期 (10/20/30/40/50/60 分钟)
出现错误时的重复发送	一次：当出现错误时发出一条相同的错误预警。 重复：每个周期重复发出相同的错误预警。
每日错误邮件自动通知	没有错误时每天自动发送一次电子邮件

3. 要保存设定内容，单击 [应用] 按钮。

### 电量通知

您可以设置或更改“电量通知”。

1. 按屏幕上方的[电量通知]选项卡。
2. 设置“电量通知”。

通知设置
取消 应用

错误通知
电量通知

电子邮件使用设置  设定  取消

电子邮件标题

接收电子邮件地址  添加地址

通知项目  运行时间  电  电量 (历史总量)  气  TOE  CO<sub>2</sub>

警报间隔 每月一次 ▼ 1日 ▼ 接收通知。 ❗

类别	说明
电子邮件使用设置	设置是否通过电子邮件发送能量使用数据。
电子邮件标题	电子邮件标题设置
接收电子邮件地址	输入接收电子邮件地址
通知项目	选择能量项目
警报间隔	按下 [▼] 按钮，选择需要的数据。 <ul style="list-style-type: none"> <li>设置日期，以便通过电子邮件接收能量使用数据。</li> <li>数据计算截至设定日期前一天的一个月的数据。</li> </ul>

3. 要保存设定内容，单击 [应用] 按钮。

### 注意

在使用电子邮件设置之前，请检查以下类别。

- 应设置 [设置] > [网络设置] 的 DNS 服务器。
- 应设置 [设置] > [管理员设置] 的邮件服务器和发送电子邮件。

## 管理员设置

当用户以管理员权限登录时，可以设定或更改用户管理环境。

1. 在左侧菜单选项卡中，单击 [设置] > [管理员设置] 菜单。
  - 显示 管理员设置界面。您可以更改管理员信息或设定系统使用环境。

Campus #1 ▲ 设备错误 0 ▲ 网络错误 0 帮助

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**管理员设置** 取消 应用

**设定密码**

当前密码

新密码

验证新密码

**设定接收电子邮件**

E-mail

※当您添加“新互锁控制”时，如果您选择发送带有输出条件的电子邮件 您可以接收互锁执行信息到设定的管理员电子邮件。

**设定邮件服务器** 连接测试

SMTP 服务器

端口

范围 2~65535

※ 编辑电子邮件服务器设置或传入/传出电子邮件设置时，您不能执行[连接测试]。单击[应用]按钮保存更改，然后重试。

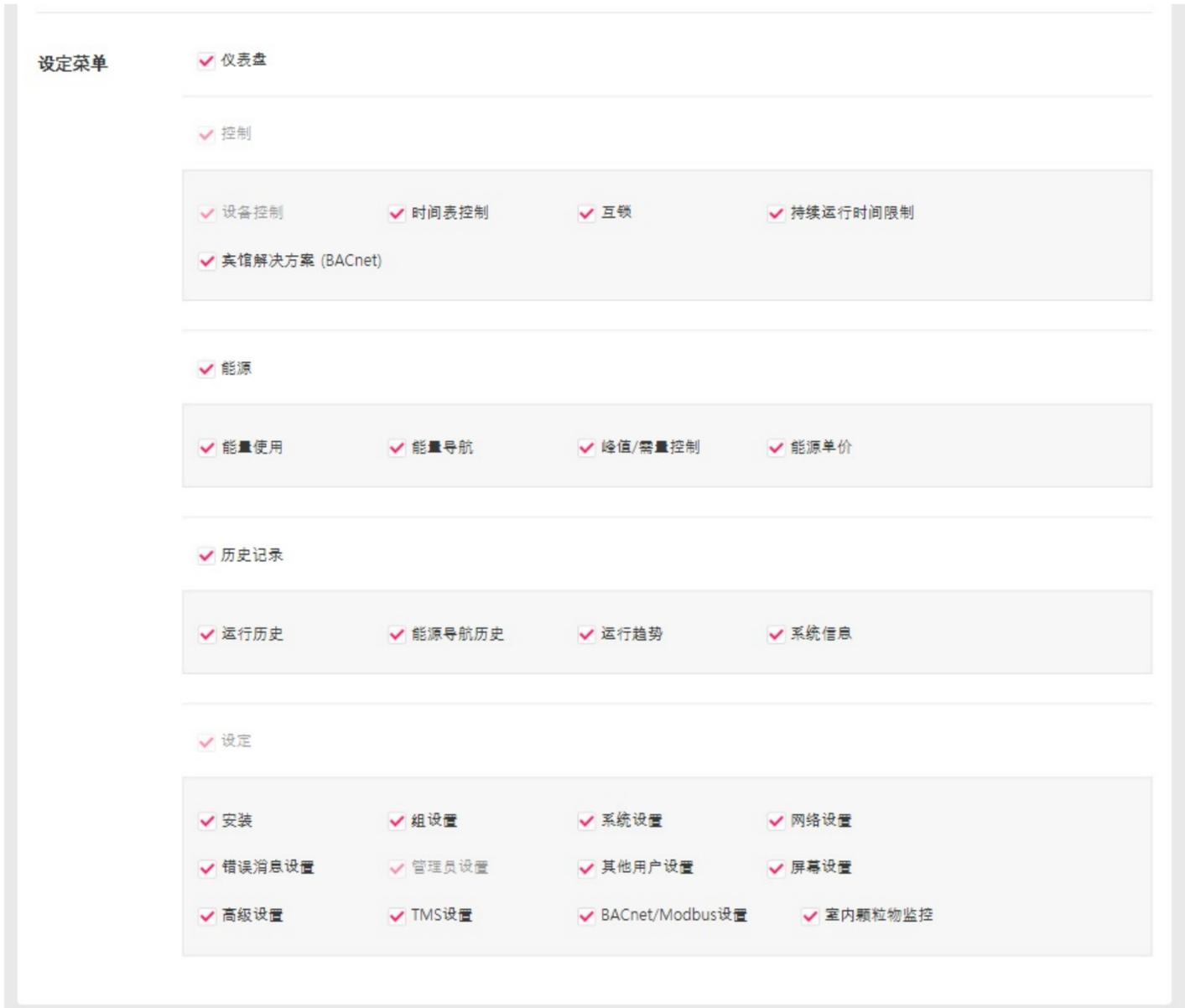
※ 要在电子邮件服务器设置中执行[测试连接]或通过中央控制器接收/发送电子邮件，您首先需要设置[网络设置] > [DNS 设置]。

**设定发送电子邮件**

ID

密码

※ 您需要保存连接测试成功的邮件服务器 ( SMTP 服务器 ) ID 和密码，以便通过该邮件服务器发送电子邮件。



类别	说明
设定密码	设定登录时使用的密码 <ul style="list-style-type: none"> <li>• 当前密码：输入目前使用的登录密码</li> <li>• 新密码：输入新密码</li> <li>• 新密码验证：再次输入同一个新密码</li> </ul>
设定接收电子邮件	输入电子邮件地址
设定邮件服务器	管理员邮件服务器设置 <ul style="list-style-type: none"> <li>• SMTP 服务器：输入 SMTP 服务器地址</li> <li>• 端口：输入端口号</li> <li>• 连接测试：输入邮件账号测试（应连接网络）</li> </ul>
设定发送电子邮件	<ul style="list-style-type: none"> <li>• ID：输入用户 ID</li> <li>• 密码：输入用户密码</li> </ul>
设定菜单	单击复选框选择需要的管理员菜单（您可以多选） <ul style="list-style-type: none"> <li>• 仪表盘</li> <li>• 控制：设备控制、时间表控制、互锁、持续运行时间限制, 宾馆解决方案 (BACnet)</li> <li>• 能源：能源用量、能源导航、峰值/需量控制, 能源单位成本</li> <li>• 历史记录：运行历史、能源导航历史、运行趋势、系统信息</li> <li>• 设置：安装、组设置、系统设置、网络设置、通知设置、管理员设置、其他用户设置、高级设置、TMS设置、BACnet/Modbus设置, 室内颗粒物监控, 设置颗粒物监控</li> </ul>

2. 要保存设定内容，单击 [应用] 按钮。

## 其他用户设置

当您以管理员权限登录后，您可以管理其他用户列表。

- 在左侧菜单选项卡中，单击 [设置] > [其他用户设置] 菜单。
  - 显示 其他用户设置界面。您可以添加用户，以及编辑或删除已注册的用户信息。



## 添加用户

您可以添加备用管理员和一般用户。

- 在左侧菜单选项卡中，单击 [设置] > [其他用户设置] 菜单。
  - 显示 其他用户设置界面。
- 单击 [添加用户] 按钮。
  - 显示 添加用户界面。
- 设定每个类别。



类别	说明
信息	<b>[用户权限]</b> <ul style="list-style-type: none"> <li>备用管理员：提供指定权限的菜单</li> <li>一般用户：仅提供设备控制菜单</li> </ul>
设定密码	<b>[ID]</b> ：输入要使用的 ID <b>[密码]</b> ：输入要使用的密码 <b>[验证密码]</b> ：再次输入要使用的密码
组权限	指定其他用户的组权限 <ul style="list-style-type: none"> <li>组选定之后只能控制相应的组</li> </ul>
菜单权限	指定其他用户使用的菜单权限 <ul style="list-style-type: none"> <li>对于一般用户，仅指定了 [控制]-[设备控制]、[设置]-[其他用户设置] 菜单权</li> </ul>

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4. 设置完成后，单击 [应用] 按钮。

## 删除用户

您可以删除注册的用户。

1. 在左侧菜单选项卡中，单击 [设置] > [其他用户设置] 菜单。
  - 显示 其他用户设置界面。
2. 单击要删除用户的 [删除] 按钮。
  - 显示 Delete user (删除用户) 界面。
3. 单击 [是] 按钮

## 屏幕设置

您可以设置与产品屏幕相关的使用环境。

1. 在左侧菜单选项卡中，单击 [设置] > [屏幕设置] 菜单。
  - 屏幕设置的界面显示。
2. 设置屏幕信息。



类别	说明
屏幕保护程序设置	<ul style="list-style-type: none"><li>• 使用显示器关闭功能：使用显示器关闭功能 设定/取消</li><li>• 显示器关闭待机时间 (分钟)：设置直到显示器关闭的待机时间 (10/20/30/40/50/60 分钟)</li></ul>

3. 设置完成后，单击 [应用] 按钮。

## 高级设置

您可以设置设备运行所需的功能。

1. 在左侧菜单选项卡中，单击 [设置] > [高级设置] 菜单。

- 显示高级设置界面。高级设置

高级设置
取消 应用

---

**设置所连接的设备**

程序监控  设定  取消

程序控制  设定  取消

辅机控制器  设定  取消

辅机控制器锁  设定  取消

配置 DI1 端口正常状态  断开  接通

---

不同的

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**室外机回油运行**

使用  设定  取消

类型  同时  序列 !

时间 每天    点钟

类别	说明
接口设备设置	<ul style="list-style-type: none"> <li>室外机系统监测：设置是否使用系统信息监控</li> <li>室外机系统控制：设置是否运行系统控制</li> <li>从控制器：设置是否可以控制从控制器</li> <li>从控制器锁：设置是否可以对所有锁定的室内机进行从控制器控制（使用：从控制器无法控制）</li> <li>配置 DI1 端口正常状态：配置 DI1 端口的正常状态。</li> </ul>
温差设置	按 [▼] 按钮设置自动切换运行的温差
室外机回油运行	<ul style="list-style-type: none"> <li>设置是否运行室外机回油运行</li> <li>将室外机回油设为同时/序列运行。                             <ul style="list-style-type: none"> <li>- 同时运行：同时进行室外机油回收。</li> <li>- 序列运行：以 10 分钟的间隔时间按顺序进行室外机回油。</li> </ul> </li> <li>按 [▲]/[▼] 按钮设置室外机回油运行时间</li> </ul>

2. 要保存设定内容，单击 [应用] 按钮。

## TMS设置

您可以设置远程管理系统的远程服务。

- 在左侧菜单选项卡中，单击 [设置] > [TMS设置] 菜单。
  - 显示 TMS设置界面。

取消 应用

**TMS配置**  设定  取消

TMS 2.0  TMS 3.0  
在与专业TMS工程师核实后，应设置TMS 3.0

---

**TMS服务器信息**

TMS服务器地址

TMS服务器端口

更新程序 (秒)  ▼

加速室外机系统信息监控  设定  取消  
在与专业TMS工程师核实后，应设置加速室外机循环监控。

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**项目信息**

项目地址

项目名称

项目编码

类别	说明
远程服务设置	<ul style="list-style-type: none"> <li>设置是否使用远程服务</li> <li>设置远程服务的服务器类型                             <ul style="list-style-type: none"> <li>- [TMS 2.0] 按钮: 连接 TMS 2.0 服务器</li> <li>- [TMS 3.0] 按钮: 连接 TMS 3.0 服务器</li> </ul> </li> </ul>
远程服务信息	<ul style="list-style-type: none"> <li>服务的服务器地址: 输入远程服务的服务器地址</li> <li>服务的服务器端口: 输入远程服务的服务器端口编号</li> <li>更新周期(秒): 按 [▼] 按钮选择远程服务更新周期 10 / 30 / 60 / 90 / 120 秒</li> <li>加速室外机系统信息监控: 设置是否加速室外机的系统监控</li> </ul>
项目信息	<ul style="list-style-type: none"> <li>项目地址: 远程站点地址输入</li> <li>项目名称: 输入远程站点名称</li> <li>项目编码: 按 [申请项目编码] 按钮以输入站点编码</li> <li>错误信息: 请求站点代码后, 按下 [错误信息] 按钮检查连接信息。 - [保存] 按钮: 将错误信息保存到文件中。</li> </ul>

- 要保存设定内容，单击 [应用] 按钮。

## BACnet/Modbus/Lonworks 设置

### BTL 认证指南

您需要将 BACnet 设置为 C 类，以使设备使用 BTL 验证的功能运行。

存在 BACnet A/B 类是为了保持与现有产品的兼容性。如果将 BACnet 设置为 A/B 类，设备可能会使用未经 BTL 验证的功能，使它们的运行方式与标准不同。

根据 BACnet 类型的操作方法

- A 类：将创建多个设备，并且对象包含在每个机器的设备中。多个设备使用相同的 MAC 地址响应其物理地址。
- B 类：将创建多个设备，并且对象包含在每个机器的设备中。设备以唯一的物理地址响应。
- C 类：只创建一个设备，包括所有对象。

※ 注意：如果更改类型，可能会更改设备编号，因此必须使用 BMS 执行其他工程设计。

您可以更改 BACnet/Modbus/Lonworks 设置。

1. 在左侧菜单选项卡中，单击 [设置] > [BACnet/Modbus/Lonworks 设置] 菜单。

- BACnet/Modbus/Lonworks 设置的界面显示。

2. 设置BACnet/Modbus/Lonworks信息。

BACnet/Modbus/Lonworks设置
取消 应用

---

BACnet 启用
 设定  取消

---

温度单位设置
 °C  °F

---

设备ID设置

---

Network Number 设置

---

注册为外部设备
 设定  取消

IP

端口

TTL

---

仅监视设置
 设定  取消

---

BACnet端口设置

ACP 端口

BMS 端口

---

BACnet 类型设置
 A 型  B 型  C 型

---

时间同步设置
 设定  取消

---

Modbus TCP 启用
 设定  取消

---

Vnet编号设置

---

Lonworks 启用
 设定  取消

---

温度单位设置
 °C  °F

---

SVC pin设置

当与BMS通信确认后，[连接]按钮将被激活。

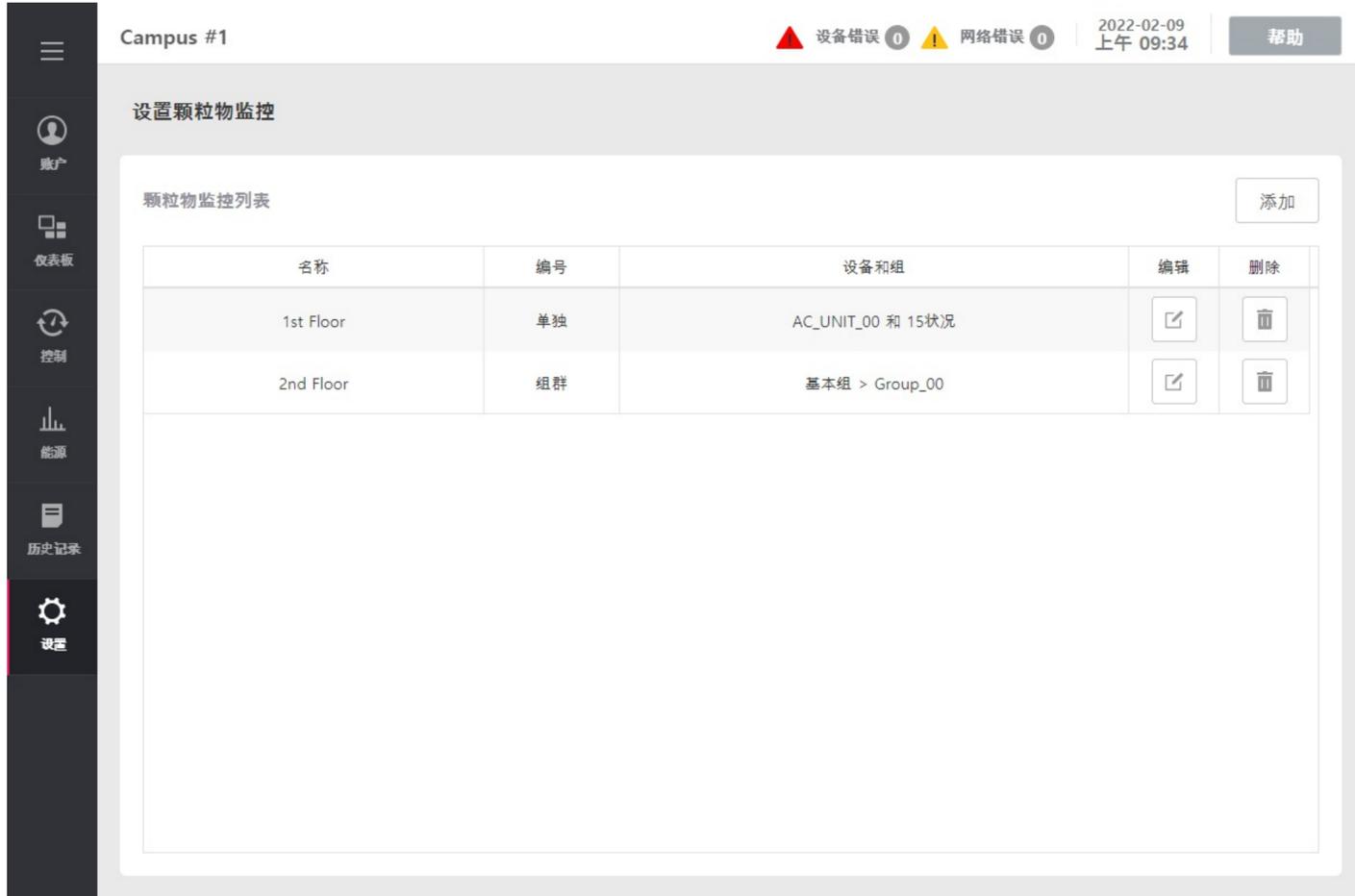
BACnet 启用	BACnet 启用 [设定/取消]
温度单位设置	选择温度单位类型 (°C/°F)
设备 ID 设置	指定设备实例编号的设备 ID 设置 <ul style="list-style-type: none"> <li>• 空调：设备编号</li> <li>• ERV：设备 ID + 1</li> <li>• AHU：设备 ID + 2</li> <li>• 室外机系统信息：设备 ID + 3</li> <li>• Heating：设备 ID + 4</li> <li>• 正常：设备 ID + 5</li> </ul>
Network Number 设置	Network Number 设置
注册为外部设备	外部设备 [设定/取消]
仅监控设置	仅监控 [设定/取消]
BACnet 端口设置	BACnet 端口设置
BACnet 类型设置	BACnet 类型选择 (A/B/C)
时间同步设置	时间同步 [设定/取消]
Modbus TCP 启用	Modbus TCP 启用 [设定/取消]
Vnet 编号设置	使用 Modbus TCP 功能的 Vnet 编号设置 设置 Vnet 编号值作为 Modbus TCP 的从 ID 地址运行
Lonworks 启用	Lonworks 启用 [设定/取消]
温度单位设置	选择 Lonwork 温度单位类型 (°C/°F)
SVC pin设置	与LON BMS进行调试时连接输入

3. 设置完成后，单击 [应用] 按钮。

## 设置颗粒物监控

此选项可用于设置和管理颗粒物监控。

1. 在左侧菜单选项卡中，单击 [设置] > [设置颗粒物监控]。
  - 出现颗粒物监控设置界面。您可以添加颗粒物监控任务，编辑或删除列表中的任务。



## 添加/编辑颗粒物监控任务

您可以添加或编辑颗粒物监控任务。

1. 在左侧菜单选项卡中，单击 [设置] > [设置颗粒物监控]。
  - 出现颗粒物监控设置界面。
2. 单击 [添加] 按钮。
  - 出现添加颗粒物监控任务界面。
3. 在屏幕上设置项目。

### 设置颗粒物监控

取消

应用

名称

类型  组监控  个人设备监控

设备页面的切换频率

显示洁净空气区认证  取消  使用

图像   (大小: 3MB, 比率: 8:9 推荐)

图像切换频率

选择设备

类型	名称	地址	组群
 <p>无已注册设备。 通过选择“编辑设备”按钮注册设备。</p>			



项目	设置
名称	设置颗粒物监控任务名称
类型	设置监控类型 <ul style="list-style-type: none"> <li>设备组监控：提供设备组的整体洁净度和统计数据</li> <li>个人设备监控：提供每个设备的整体洁净度和图像</li> </ul>
设备页面切换周期/设备切换周期	设置设备页面切换周期/设备切换周期
对不良状态使用替代文本	为“不良”或“较低”整体洁净度状态提供替代文本和图像 <ul style="list-style-type: none"> <li>仅用于个人设备监控</li> </ul>
显示洁净空气区认证	显示或隐藏洁净空气区认证贴纸
图像	设置监控过程中显示的图像。最多可设置 10 张图像。 <ul style="list-style-type: none"> <li>[导入]：导入要使用的图像。当导入窗口出现时，选择要添加的图像文件，并单击 [打开] 按钮。</li> <li>[添加]：添加图像设置选项卡。</li> <li>[删除]：删除图像设置选项卡。</li> <li>[重置]：重置添加的图像。</li> <li>仅用于个人设备监控</li> </ul>
图像切换频率	设置图像切换频率 <ul style="list-style-type: none"> <li>仅用于个人设备监控</li> </ul>
设备编辑	选择需要进行颗粒物监控的设备或设备组 <ul style="list-style-type: none"> <li>单击 [设备编辑] 按钮，弹出设备编辑窗口。</li> <li>在未注册设备列表中，选中要注册的设备或设备组，单击 [◀] 按钮。</li> <li>一旦设备注册成功，单击 [应用] 按钮。</li> </ul>

4. 一旦设置完成，单击 [应用] 按钮。

## 删除颗粒物监控

您可以删除列出的微粒监控设置。

- 在左侧菜单选项卡中，单击 [设置] > [设置颗粒物监控]。
  - 出现颗粒物监控设置界面。
- 单击要删除的项目旁边的 [删除] 按钮。
  - 弹出删除窗口。
- 单击 [是] 按钮。

## 注意

建议图像大小 (1920x1080 分辨率)

- 水平：960x1080 像素
- 垂直：1080x840 像素



## 使用 (手机、平板)

- 登录/退出
- 仪表板
- 设备控制
- 时间表控制

您可以使用英特网地址窗口中的 IP 地址访问该产品，以使用各种中央控制功能。

## 注意

- 对于 web 控件，建议使用 Chrome 浏览器浏览。
- 要访问 Web，需要设定 IP 地址。

## 登录

登录方法如下。

1. 请在英特网地址窗口中输入产品的 IP 地址。
2. 在登录窗口中输入 ID 和密码，并单击 [登录] 按钮。

## 注销

退出方法如下。

1. 在菜单中，单击 [注销] 按钮。



您可以检查产品中所安装设备的当前运行状态和能源使用趋势。

## 运行状态

状态仪表板“当前运行状态”界面的构成和功能



编号	类别	说明
①	运行状态	查看产品中已安装设备的运行状态(开/关/错误) [组群] • 检查由用户指定的每个管理组的运行状态 [设备] • 检查每个设备的运行状态
②	环境状态	检查平均室内温度、最高/最低 室内温度和组
③	今日时间表	检查今日时间表列表
④	互锁	检查互锁列表
⑤	AI 操作状态	查看运行智能护理的设备数量和每月节能率 • 单击“按设备查看”，可查看运行人工智能智能护理的室外机数量、每台设备的能源使用率以及节能和每月节能率
⑥	合作经营状况	协同控制小部件的使用 • 平均舒适程度 • 合作驾驶 • 查看协同控制运行状态

## 能源

说明仪表板“能源”选项卡构成和功能。



编号	类别	说明
①	能量使用趋势	检查每天、每月和每年的用电量/用气量趋势
②	用电量	检查累计、预估和目标用电量
③	用气量	检查累计、预估和目标用气量
④	今日能量用量	检查累计、预估和目标综合能源使用量
⑤	持续运行时间级别	检查室内机的持续运行时间排序
⑥	能量导航	查看能源导航状态

## 环境状态

介绍了仪表板环境状态标签的组成和功能



编号	类别	说明
①	二氧化碳监控	检查已注册ERV的 CO <sub>2</sub> 状态
②	舒适程度监控	查看已注册室内机的舒适度状态
③	微尘监测	查看已注册室内机，空气净化器的微尘状态 微尘分为 PM10、PM2.5 和 PM1.0，它表明每种状态和浓度
④	制冷剂泄漏报警状态	查看已注册室内机的制冷剂泄漏报警状态



## 设备控制

说明控制设备及监测设备状态的方法。

### [画面]

- 画面结构和功能

### [控制窗口]

- 每个设备的控制
- 设备信息

## 画面结构和功能

1. 在左侧菜单选项卡中，单击 [控制] > [设备控制] 菜单。
  - 显示设备控制界面。



编号	类别	说明
①	组信息	组名称和组位置
②	筛选	设备类别筛选
③	多选	单击后可选择多个设备
④	设备区	检查在组中设定的设备信息

## 每个设备的控制

在设备区中选择了设备后，会生成一个如下图所示的控制窗口。通过此控制窗口，您可以控制所选的设备。



### 注意

- 每个设备的详细控制范围与实际设备会有不同，因此务必参考相应设备的手册。
- ACS I/O 设备根据设置会有不同的控制工具名称、单位、上限、下限等。

## 每个设备的具体控制

- ➔ 室外机
- ➔ 室内机
  - 室内机 (2Set)
- ➔ ERV
- ➔ ERV DX
- ➔ 可控制设备清单
- ➔ Heating
- ➔ AHU
- ➔ 涡旋式冷水机
- ➔ 螺杆式冷水机
- ➔ 离心式冷水机
- ➔ 涡旋式冷水机
- ➔ 吸收式冷水机
- ➔ DOKIT
- ➔ DO
- ➔ AO
- ➔ 空气净化器

室外机



类别	说明
室外机容量控制	• 按 [▼] 按钮设置功率控制运行率 (%)
智能负载控制 (SLC) 设置	• 按 [▲]/[▼] 按钮设置智能加载控制等级(0 等级、1 等级、2 等级、3 等级、4 等级)
低噪音模式	• [设定/取消] 按钮：室外机低噪音运行设置/取消
除霜模式	• 按 [▲]/[▼] 按钮设置室外机除霜模式等级(0 等级、1 等级、2 等级、3 等级)
室外机冷媒低噪音运行模式	• 按 [▲]/[▼] 按钮设置室外机冷媒降噪等级(0 等级、1 等级、2 等级)

注意

在中央控制器中，如果使用“室外机低噪音运行”，则在已安装的室内机线控器中，您需要设置 [安装程序设置] > [低噪音模式] 为“ODU”。



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[制冷] 按钮：切换到制冷模式</li> <li>[制热] 按钮：切换到制热模式</li> <li>[送风] 按钮：切换到送风模式。选择 送风时，设定温度不会应用到设备</li> <li>[除湿] 按钮：在雨季或空气湿度较高时去除湿气。选择 Dehumidification (除湿) 时，设定温度不会应用到设备</li> <li>[自动] 按钮：切换到自动模式</li> </ul>
空气净化	<p>空气净化控制只用于支持室内机的空气净化功能</p> <ul style="list-style-type: none"> <li>空气净化单运行                             <ol style="list-style-type: none"> <li>室内机停止状态下，如果空气净化为 [设定]，则空气净化仅伴随着送风(自动风)单运行(在空气净化单运行期间，模式锁和风量锁未被选择)</li> <li>在空气净化单运行期间，如果运行状态为 [关] 或空气净化状态为 [取消]，则空气净化被恢复到先前的模式和先前的风量(但在同时使用模式或风量控制时，采用已控制的模式和风量进行控制)</li> </ol> </li> <li>空气净化附加运行                             <ol style="list-style-type: none"> <li>室内机停止状态下，如果运行状态为 [开] 而且空气净化为 [设定]，则在当前模式下附加运行空气净化</li> <li>室内机运行状态下，如果空气净化状态为 [设定]，则在当前模式下附加运行空气净化</li> <li>附加运行空气净化期间，如果运行状态为 [关]，则运行停止</li> <li>附加运行空气净化期间，如果空气净化为 [取消]，则空气净化被取消</li> </ol> </li> </ul>
设定温度	按 [▲]/[▼] 按钮设定所需温度
风速	<p>设置送风风速</p> <ul style="list-style-type: none"> <li>[低] 按钮：将风速设定为慢速</li> <li>[中] 按钮：将风速设定为正常</li> <li>[高] 按钮：将风速设定为快速</li> </ul>

	<ul style="list-style-type: none"> <li>• [自动] 按钮：[低]-[中]-[高] 自动切换</li> </ul>
摆风	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：启动/停止风扇的自动旋转功能</li> </ul>
设置温度范围	当用户单独设定所需温度时，所需温度不能设定到指定温度范围之外
人体检测模式 - 开/关节能	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 开/关节能设置/取消</li> </ul>
人体检测模式 - 温度节能	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 温度节能设置/取消</li> </ul>
人体检测模式 - 空闲时间设置（分钟）	仅用于支持室内机的人体感测，人体感测控制 将空决策时间设置为 5、10、15、30、60 或 90 分钟。
人体检测模式 - 直接风	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 直接风设置/取消</li> </ul>
人体检测模式 - 间接风	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 间接风设置/取消</li> </ul>
舒适节能	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：舒适节能功能设置/取消</li> <li>• 可以按 [▲]/[▼] 按钮设置等级</li> </ul> 仅当室内机处于制冷运行时，才可能有舒适节能控制
预过滤器更换提示	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果出现预过滤器更换提示，该按钮可取消预过滤器更换提示</li> </ul>
微尘过滤器更换提示	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果出现微尘过滤器更换提示，该按钮可取消微尘过滤器更换提示</li> </ul>
锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>
模式锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制模式设置</li> </ul>
风速锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制风速设置</li> </ul>
温度锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制温度设置</li> </ul>
自动模式转换	当室内温度超过上限温度时，则自动切换到制冷运行；如果低于下限温度，则自动切换到制热运行；如果在上限温度和下限之间，则仅送风运行(仅支持具有同时制冷/制热功能的室外机) <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消自动模式转换</li> </ul>
下限/上限温度	自动模式转换下限温度和上限温度设置
自动模式下的风速	选择自动模式转换运行过程中室内机的设定风速值 <ul style="list-style-type: none"> <li>• [低] 按钮：将风速设定为慢速</li> <li>• [中] 按钮：将风速设定为正常</li> <li>• [高] 按钮：将风速设定为快速</li> <li>• [自动] 按钮：[低]-[中]-[高] 自动切换</li> </ul>
维持	将设备安装所在位置的温度维持在特定范围之内的功能（仅支持热回收室外机） <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消维持</li> </ul>
制冷初始温度设定	按 [▲]/[▼] 按钮设定制冷运行开始温度(21°C~40°C)
制热初始温度设定	按 [▲]/[▼] 按钮设定制热运行开始温度(1°C~20°C)
组合制热模式设定	(仅支持特定室内机和室外机) [设定/取消] 按钮: 激活/停用基于室外温度的控制。
模式	设置了组合加热控制时才能激活。 <ul style="list-style-type: none"> <li>• [自动] 按钮: 将控制模式设为自动</li> <li>• [手动] 按钮: 将控制模式设为手动</li> </ul> 您可以激活/停用对热泵和加热器的控制。无法同时停用对热泵和加热器的控制
温度1	只能在自动模式下激活。 您可以设置室外温度为温度 1。热泵和加热器根据设置的温度自动运行。 按 [▲]/[▼] 设置温度。1 (-23°C-16°C)。
温度2	只能在自动模式下激活。 您可以设置室外温度为温度 2。热泵和加热器根据设置的温度自动运行。 按 [▲]/[▼] 设置温度。2 (-23°C-51°C)。
热泵	只能在手动模式下激活。 [设定/取消] 按钮: 激活/停用热泵控制。
加热器	只能在手动模式下激活。 [设定/取消] 按钮: 激活/停用加热器控制。
智能护理	仅当连接 AI 控制器时激活 [设置/清除] 按钮：激活/停用智能护理
协同控制	仅当连接 AI 控制器时激活 [设置/清除] 按钮：激活/停用协同控制
UVnano	仅适用于UVnano模式-支持室内机，UVnano模式-控制 [设置/清除] 按钮: 激活/停用 UVnano

## 室内机 (2Set)

当在 [设置] > [安装] 下使用了支持室外机/室内机/线控器的 2Set 功能时，如果 ACP 的 2Set 自动模式被选择为 室内机，则室内机的 2Set 控制窗口就出现在下列屏幕的左侧。



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[制冷] 按钮：切换到制冷模式</li> <li>[制热] 按钮：切换到制热模式</li> <li>[送风] 按钮：切换到送风模式。选择 送风时，设定温度不会应用到设备</li> <li>[除湿] 按钮：在雨季或空气湿度较高时去除湿气。选择 Dehumidification (除湿) 时，设定温度不会应用到设备</li> <li>[自动] 按钮：切换到自动模式</li> </ul>
空气净化	<p>空气净化控制只用于支持室内机的空气净化功能</p> <ul style="list-style-type: none"> <li>空气净化单运行                             <ol style="list-style-type: none"> <li>室内机停止状态下，如果空气净化为 [设定]，则空气净化仅伴随着送风(自动风)单运行(在空气净化单运行期间，模式锁和风量锁未被选择)</li> <li>在空气净化单运行期间，如果运行状态为 [关] 或空气净化状态为 [取消]，则空气净化被恢复到先前的模式和先前的风量(但在同时使用模式或风量控制时，采用已控制的模式和风量进行控制)</li> </ol> </li> <li>空气净化附加运行                             <ol style="list-style-type: none"> <li>室内机停止状态下，如果运行状态为 [开] 而且空气净化为 [设定]，则在当前模式下附加运行空气净化</li> <li>室内机运行状态下，如果空气净化状态为 [设定]，则在当前模式下附加运行空气净化</li> <li>附加运行空气净化期间，如果运行状态为 [关]，则运行停止</li> <li>附加运行空气净化期间，如果空气净化为 [取消]，则空气净化被取消</li> </ol> </li> </ul>
占用状态	<p>设置安装室内机的空间为已占用或空的功能</p> <ul style="list-style-type: none"> <li>[占用] 按钮：已占用设置</li> <li>[未占用] 按钮：空设置</li> </ul>
制冷设置温度	按 [▲]/[▼] 按钮设置制冷设置温度
制热设置温度	按 [▲]/[▼] 按钮设置制热设置温度
制冷下限/上限温度	制冷下限温度和上限温度设置
制热下限/上限温度	制热下限温度和上限温度设置
	设置送风风速

风速	<ul style="list-style-type: none"> <li>• [低] 按钮：将风速设定为慢速</li> <li>• [中] 按钮：将风速设定为正常</li> <li>• [高] 按钮：将风速设定为快速</li> <li>• [自动] 按钮：[低]-[中]-[高] 自动切换</li> </ul>
摆风	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：启动/停止风扇的自动旋转功能</li> </ul>
人体检测模式 - 开/关节能	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 开/关节能设置/取消</li> </ul>
人体检测模式 - 温度节能	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 温度节能设置/取消</li> </ul>
人体检测模式 - 空闲时间设置（分钟）	仅用于支持室内机的人体感测，人体感测控制 将空决策时间设置为 5、10、15、30、60 或 90 分钟。
人体检测模式 - 直接风	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 直接风设置/取消</li> </ul>
人体检测模式 - 间接风	仅用于支持室内机的人体感测，人体感测控制 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：人体检测模式 - 间接风设置/取消</li> </ul>
舒适节能	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：舒适节能功能设置/取消</li> <li>• 可以按 [▲]/[▼] 按钮设置等级</li> </ul> 仅当室内机处于制冷运行时，才可能有舒适节能控制
预过滤器更换提示	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果出现预过滤器更换提示，该按钮可取消预过滤器更换提示</li> </ul>
微尘过滤器更换提示	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果出现微尘过滤器更换提示，该按钮可取消微尘过滤器更换提示</li> </ul>
锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>
模式锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制模式设置</li> </ul>
风速锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制风速设置</li> </ul>
温度锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制温度设置</li> </ul>
组合制热模式设定	(仅支持特定室内机和室外机) [设定/取消] 按钮：激活/停用基于室外温度的控制。
模式	设置了组合加热控制时才能激活。 <ul style="list-style-type: none"> <li>• [自动] 按钮：将控制模式设为自动。</li> <li>• [手动] 按钮：将控制模式设为手动。</li> </ul> 您可以激活/停用对热泵和加热器的控制。无法同时停用对热泵和加热器的控制
温度1	只能在自动模式下激活。 您可以设置室外温度为温度 1。热泵和加热器根据设置的温度自动运行。 <ul style="list-style-type: none"> <li>• 按 [▲]/[▼] 设置温度。1 (-23°C-16°C)。</li> </ul>
温度2	只能在自动模式下激活。 您可以设置室外温度为温度 2。热泵和加热器根据设置的温度自动运行。 <ul style="list-style-type: none"> <li>• 按 [▲]/[▼] 设置温度。2 (-23°C-51°C)。</li> </ul>
热泵	只能在手动模式下激活。 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：激活/停用热泵控制。</li> </ul>
加热器	只能在手动模式下激活。 <ul style="list-style-type: none"> <li>• [设定/取消] 按钮：激活/停用加热器控制。</li> </ul>
智能护理	仅当连接 AI 控制器时激活 [设置/清除] 按钮：激活/停用智能护理
协同控制	仅当连接 AI 控制器时激活 [设置/清除] 按钮：激活/停用协同控制
UVnano	仅适用于UVnano模式-支持室内机，UVnano模式-控制 [设置/清除] 按钮：激活/停用 UVnano

## 注意

### 2set 自动模式

- 仅当室内/外机支持2Set自动模式时，相应的功能才能被使用。（有关每个设备是否支持 2Set，请参考相应设备的手册。）
- 超控是一种可以从线控器设置的功能。有关超控功能的相关内容，请参考线控器手册。
- 在 2Set 自动模式下，连同自动图标、产品实际运行模式（制冷、制热）状态一起显示。

### 占用状态

- 如果占用状态传感器与室内机相连，则中央控制的设置优先于相应的占用状态传感器。有关占用状态传感器的相关内容，请参考室内机或干节点的手册。
- 当已占用设置被改变时，自动设置制冷设定温度和制热设定温度都是最近运行的时间表中的制冷设定温度和制热设定温度，并且，如果没有以前运行的时间表，则它被设置到默认值。

(示例)

09:00 - 12:00: 已占用 / 制冷设定温度 27°C / 制热设定温度 18°C  
 12:00 - 13:00: 已占用 / 制冷设定温度 29°C / 制热设定温度 16°C  
 13:00 - 15:00: 已占用 / 制冷设定温度 26°C / 制热设定温度 19°C

如果在 15:00 以后没有时间表为空，则制冷设定温度为 29°C，制热设定温度为 16°C；并且，如果已占用，则制冷设定温度变为成 26°C，并且制热设定温度变为成 19°C。



类别	说明
运行	<ul style="list-style-type: none"> <li>• [开] 按钮：开始设备运行</li> <li>• [关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>• [正常] 按钮：不经过换热器对排出的空气进行通风</li> <li>• [换热器] 按钮：通过换热器对送风/排风进行通风</li> <li>• [自动] 按钮：切换到自动模式</li> </ul>
风速	<p>设置送风风速</p> <ul style="list-style-type: none"> <li>• [低] 按钮：将风速设定为慢速</li> <li>• [高] 按钮：将风速设定为快速</li> <li>• [超强] 按钮：将风速设定为最高速度</li> <li>• [自动] 按钮：[低]-[高]-[超强] 自动切换               <ul style="list-style-type: none"> <li>- 用户无法设置</li> <li>- 当设定“节电/快速”后，[自动] 风速被选中</li> <li>- 当清除“节电/快速”后，[高] 风速被选中</li> <li>- 在[自动] 运行过程中，当选择了 [低]/[高]/[超强] 时，运行中的“节电/快速”功能会被清除</li> </ul> </li> </ul>
滤网更换报警	<ul style="list-style-type: none"> <li>• [取消] 按钮：如果滤网清洗提示，它将取消滤网清洗提示</li> </ul>
附加功能	<ul style="list-style-type: none"> <li>• 快速 [设定/取消] 按钮：设定/取消 快速功能（选择“快速”功能时，节能功能会被清除）</li> <li>• 节电 [设定/取消] 按钮：设定/取消 节能功能（选择节能功能时，“快速”功能会被清除）</li> <li>• 加热器 [设定/取消] 按钮：设定/取消 加热器功能</li> </ul>
夜间风冷(NTFC)	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设置/清除夜间风冷功能，即：当夜间室外温度低于设定温度时直接利用室外空气制冷。</li> </ul>
锁定	<ul style="list-style-type: none"> <li>• [设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[正常] 按钮：不经过换热器对排出的空气进行通风</li> <li>[换热器] 按钮：通过换热器对送风/排风进行通风</li> <li>[自动] 按钮：切换到自动模式</li> </ul>
设定温度	按 [▲]/[▼] 按钮设定所需温度
风速	设置送风风速 <ul style="list-style-type: none"> <li>[低] 按钮：将风速设定为慢速</li> <li>[高] 按钮：将风速设定为快速</li> <li>[超强] 按钮：将风速设定为最高速度</li> <li>[自动] 按钮：[低]-[高]-[超强] 自动切换               <ul style="list-style-type: none"> <li>- 用户无法设置</li> <li>- 当设定“节电/快速”后，[自动] 风速被选中</li> <li>- 当清除“节电/快速”后，[高] 风速被选中</li> <li>- 在[自动] 运行过程中，当选择了 [低]/[高]/[超强] 时，运行中的“节电/快速”功能会被清除</li> </ul> </li> </ul>
联动空调	<ul style="list-style-type: none"> <li>[制冷] 按钮：在制冷模式下运行ERV DX</li> <li>[自动] 按钮：在自动模式下运行ERV DX</li> <li>[制热] 按钮：在制热模式下运行ERV DX</li> <li>[关] 按钮：停止ERV DX的空调功能</li> </ul>
设置温度范围	当用户单独设定所需温度时，所需温度不能设定到指定温度范围之外
滤网更换报警	<ul style="list-style-type: none"> <li>[取消] 按钮：如果滤网清洗提示，它将取消滤网清洗提示</li> </ul>
附加功能	<ul style="list-style-type: none"> <li>快速 [设定/取消] 按钮：设定/取消 快速功能（选择“快速”功能时，节能功能会被清除）</li> <li>节电 [设定/取消] 按钮：设定/取消 节能功能（选择节能功能时，“快速”功能会被清除）</li> <li>加热器 [设定/取消] 按钮：设定/取消加热器功能</li> <li>加湿 [设定] 按钮：设定加湿功能（仅用于空调制热模式）</li> </ul>
夜间风冷(NTFC)	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设置/清除夜间风冷功能，即：当夜间室外温度低于设定温度时直接利用室外空气制冷。</li> </ul>
锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>
模式锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制模式设置</li> </ul>
风速锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制风速设置</li> </ul>
温度锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设定/取消锁定，这样用户就无法使用单独的线控器来控制温度设置</li> </ul>
夜间风冷锁	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：在线控器上设置/清除夜间风冷定时</li> </ul>

可控制设备清单



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[正常] 按钮：不经过换热器对排出的空气进行通风</li> <li>[换热器] 按钮：通过换热器对送风/排风进行通风</li> <li>[自动] 按钮：切换到自动模式</li> </ul>
风速	<p>设置送风风速</p> <ul style="list-style-type: none"> <li>[低] 按钮：将风速设定为慢速</li> <li>[高] 按钮：将风速设定为快速</li> <li>[超强] 按钮：将风速设定为最高速度</li> <li>[自动] 按钮：[低]-[高]-[超强] 自动切换                             <ul style="list-style-type: none"> <li>- 用户无法设置</li> <li>- 当设定“节电/快速”后，[自动] 风速被选中</li> <li>- 当清除“节电/快速”后，[高] 风速被选中</li> <li>- 在[自动] 运行过程中，当选择了 [低]/[高]/[超强] 时，运行中的“节电/快速”功能会被清除</li> </ul> </li> </ul>
滤网更换报警	<ul style="list-style-type: none"> <li>[取消] 按钮：如果滤网清洗提示，它将取消滤网清洗提示</li> </ul>
附加功能	<ul style="list-style-type: none"> <li>快速 [设定/取消] 按钮：设定/取消 快速功能（选择“快速”功能时，节能功能会被清除）</li> <li>节电 [设定/取消] 按钮：设定/取消 节能功能（选择节能功能时，“快速”功能会被清除）</li> <li>加热器 [设定/取消] 按钮：设定/取消 加热器功能</li> </ul>
夜间风冷(NTFC)	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设置/清除夜间风冷功能，即：当夜间室外温度低于设定温度时直接利用室外空气制冷。</li> </ul>
锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>

Heating



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[制冷] 按钮：切换到制冷模式</li> <li>[制热] 按钮：切换到制热模式</li> <li>[自动] 按钮：切换到自动模式</li> </ul>
进风（水）温度/出风（水）温度	按 [▲]/[▼] 按钮设定进风（水）温度/出风（水）温度 显示取决于 [设置]-[设备设置] 中选择的设定温度 <ul style="list-style-type: none"> <li>选择 [进水/出水] 时，显示为进水温度/出水温度</li> <li>选择 [室内] 时，显示为空气温度</li> </ul>
热水	<ul style="list-style-type: none"> <li>[开] 按钮：开始热水运行                             <ul style="list-style-type: none"> <li>- 如果当设备处于自动/制冷模式时运行热水功能，内容显示区的图标中就会显示相应模式和热水</li> <li>- 如果设备停止时运行热水功能，内容显示区中的此图标就会被启用并显示热水</li> </ul> </li> <li>[关] 按钮：停止热水运行</li> </ul>
热水温度	按 [▲]/[▼] 按钮设定热水温度
锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮：设定/取消 锁定，这样用户就无法使用单独的线控器控制任何功能</li> </ul>

## AHU



类别	说明
查看详情	按 [查看详细] 按钮查看详情信息(但, 不包括手机)
运行	<ul style="list-style-type: none"> <li>[开] 按钮: 开始设备运行</li> <li>[关] 按钮: 停止设备运行</li> </ul>
模式	<ul style="list-style-type: none"> <li>[制冷] 按钮: 切换到制冷模式</li> <li>[制热] 按钮: 切换到制热模式</li> <li>[送风] 按钮: 切换至送风模式。选择 送风时, 您不能设定温度</li> <li>[除湿] 按钮: 在雨季或空气湿度较高时去除湿气。选择 除湿时, 您不能设定温度</li> <li>[节电] 按钮: 此运行能找到通风系统效率最佳的运行点以降低能耗。它通过提供大于送风风速的排风风速来顺利排出被污染的室内空气</li> <li>[再热] 按钮: 在制冷/制热功能运行的同时保持恒定温度和湿度。(AHU 再热盘管使用时才可用。)</li> </ul>
设定温度	按 [▲]/[▼] 按钮设定温度
风扇控制标准	<ul style="list-style-type: none"> <li>[风速] 按钮: 根据风速状态控制风扇</li> <li>[温度] 按钮: 根据温度状态控制风扇</li> <li>[压力] 按钮: 根据定压状态控制风扇</li> </ul>
风速	它只有在风扇控制标准为风速时出现 <ul style="list-style-type: none"> <li>[低] 按钮: 将风速设定为慢速</li> <li>[中] 按钮: 将风速设定为正常</li> <li>[高] 按钮: 将风速设定为快速</li> </ul>
自动通风	它只有在 AHU 设备注册过程中在 附加功能中选择了“自动通风”或“自动通风/加湿”时才会出现 <ul style="list-style-type: none"> <li>自动通风 [设定/取消] 按钮: 启动/停止自动通风</li> </ul>
设定 CO <sub>2</sub>	只有设定了自动通风功能时它才能被启用 按 [▲]/[▼] 按钮以 100ppm 为单位在 100 ppm ~ 2 000 ppm 范围内设置。
加湿	它只有在 AHU 设备注册过程中在 附加功能中选择了“加湿”或“自动通风/加湿”时才会出现 <ul style="list-style-type: none"> <li>加湿 [设定/取消] 按钮: 启动/停止加湿功能</li> </ul>
湿度	只有设定了除湿功能时它才能被启用 按 [▲]/[▼] 按钮设定目标湿度
风阀开度	<ul style="list-style-type: none"> <li>按 [OA 风阀]: [▲]/[▼] 按钮以 1° 为单位设置室外新风风阀的张开角度值(范围: 0° ~ 90°)</li> <li>按 [MIX 风阀]: [▲]/[▼] 按钮以 1° 为单位设置混风风阀的张开角度值(范围: 0° ~ 90°)</li> <li>按 [EA 风阀]: [▲]/[▼] 按钮以 1° 为单位设置排风风阀的张开角度值(范围: 0° ~ 90°)</li> </ul> 当您设定[设置]-[系统设置]的 风阀开度计算公式应用 为 设定时, 其运行方式为: OA风阀 = EA风阀, OA风阀 = 混合风阀
锁定	<ul style="list-style-type: none"> <li>[设定/取消] 按钮: 设定/取消 锁定, 这样用户就无法使用单独的线控器控制任何功能</li> </ul>

### 详细查看 AHU

在 AHU 的控制界面中, 可以按 [查看详细] 按钮以查看详情信息。

Campus #1

设备控制

基本组 > Group

运行状态: 12 / 6

MAHU\_General

控制 信息

查看详细

运行: 开 关

模式: 制冷 制热 送风

节能 省电

OA:30 MIX:60 EA:30

设定温度: 20.0 °C

送风固定压力 0Pa  
温度 30.0°C  
湿度 40.0%

风速: 低 中 高

应用

→ SPLIT DOAS

涡旋式冷水机



类别	说明
运行	<ul style="list-style-type: none"> <li>• [开] 按钮：开始设备运行</li> <li>• [关] 按钮：停止设备运行</li> </ul>
模式	(仅当设备支持相应模式时出现) <ul style="list-style-type: none"> <li>• [制冷] 按钮：切换到制冷模式</li> <li>• [制热] 按钮：切换到制热模式</li> </ul>
设定温度	设定室内机制冷/制热的循环水出水温度 按 [▲]/[▼] 按钮设定制冷模式和制热模式的温度
警报	[取消] 按钮：冷水机发出警报时清除报警
需量控制	按 [▲]/[▼] 按钮设定需量限制比

螺杆式冷水机



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	模式无法控制。控制被监测模式的设定温度
设定温度	设定室内制冷/制冰的压水出水温度 按 [▲]/[▼] 按钮设定制冷模式和制冰模式的温度
警报	[取消] 按钮：冷水机发出警报时清除报警
电机电流限制	按 [▲]/[▼] 按钮设定电机电流限制比

离心式冷水机



类别	说明
运行	<ul style="list-style-type: none"> <li>[开] 按钮：开始设备运行</li> <li>[关] 按钮：停止设备运行</li> </ul>
模式	模式无法控制。控制被监测模式的设定温度
设定温度	设定室内制冷/制热/制冰的循环水出水温度 按 [▲]/[▼] 按钮设定制冷模式和制热/制冰模式的温度
警报	[取消] 按钮：冷水机发出警报时清除报警
电机电流限制	按 [▲]/[▼] 按钮设定电机电流限制比

吸收式冷水机



类别	说明
运行	<ul style="list-style-type: none"> <li>• [开] 按钮：开始设备运行</li> <li>• [关] 按钮：停止设备运行</li> </ul>
模式	模式无法控制。控制被监测模式的设定温度
设定温度	设定室内机制冷/制热的循环水出水温度 按 [▲]/[▼] 按钮设定制冷模式和制热模式的温度
警报	[取消] 按钮：冷水机发出警报时清除报警
控制阀上限	按 [▲]/[▼] 按钮设定控制阀上限比

DOKIT



类别	说明
运行	<ul style="list-style-type: none"><li>• [开] 按钮：开始设备运行</li><li>• [关] 按钮：停止设备运行</li></ul>



DO



类别	说明
运行	<ul style="list-style-type: none"><li>• [接通] 按钮：短路信号输出</li><li>• [断开] 按钮：开路信号输出</li></ul>



AO



类别	内容说明
温度	设定温度值

**注意**

单位符号可能会根据设备注册期间的使用设置而改变。

## 设备信息

当您单击设备控制界面中的“设备信息”选项卡后，可以检查设备的信息。

您可以检查设备的基本信息、运行信息、时间表信息、错误信息和当天的历史记录。

The image displays five sequential screenshots of the AC\_UNIT\_00 control interface, each showing a different tab selected under the '信息' (Information) section. The interface is dark-themed with white text and icons.

- Screenshot 1: 基本信息 (Basic Information)**
  - 名称: AC\_UNIT\_00
  - 设备地址: 00
  - 组群: New group
  - 室外机: ODU[00]
  - 型号: AC
  - 容量: 3
- Screenshot 2: 运行 / 驱动信息 (Operation / Drive Information)**
  - 运行: 开
  - 模式: 自动
  - 当前温度: 23.0 °C
  - 设定温度: 23.0 °C
  - 风速: 高
  - 摆风
- Screenshot 3: 时间表信息 (2) (Schedule Information (2))**

时间	说明
10:00	ON Schedule
19:00	OFF Schedule
- Screenshot 4: 错误信息 (Error Information)**
  - 错误: 无错误
  - 错误代码: 0
  - 错误说明: 无错误
- Screenshot 5: 历史记录 (History Record)**

时间	内容
2018-07-31 PM 04:20	控制 模式: 自动 ACS
2018-07-31 PM 04:20	控制 限制温度 (下限): 20°C by admin
2018-07-31 PM 04:20	控制 限制温度 (上限): 28°C by admin
2018-07-31 PM 04:20	控制 模式: 自动 by admin



## 时间表控制

时间表功能，是指预先设定设备运行时间，以在一定时间内执行所预定的运行。当使用该功能时，可以有效地对设备进行实时管理，节能效果良好。

[时间表]

→ [检查时间表](#)

## 检查时间表

您可以查看所有设定的时间表。



当您单击 编辑图标时，您可以检查时间表的详细内容。



## BACnet/Modbus/LonWorks 设置

### BTL 认证指南

您需要将 BACnet 设置为 C 类，以使设备使用 BTL 验证的功能运行。

存在 BACnet A/B 类是为了保持与现有产品的兼容性。如果将 BACnet 设置为 A/B 类，设备可能会使用未经 BTL 验证的功能，使它们的运行方式与标准不同。

有关 BACnet 类型设置，请转到 [使用 (PC)] > [BACnet/Modbus/LonWorks 设置] 菜单。

#### 根据 BACnet 类型的操作方法

- A 类：将创建多个设备，并且对象包含在每个机器的设备中。多个设备使用相同的 MAC 地址响应其物理地址。
- B 类：将创建多个设备，并且对象包含在每个机器的设备中。设备以唯一的物理地址响应。
- C 类：只创建一个设备，包括所有对象。

※ 注意：如果更改类型，可能会更改设备编号，因此必须使用 BMS 执行其他工程设计。

ACP 5 can be linked with the BMS (Building Management System) that supports the BACnet IP/Modbus TCP 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
- 功能块清单
- 网络变量

## 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 Setting] > [BACnet enable]** as **Set**.
- In case of installing 2 or more ACP 5, you must change **[Settings] > [BACnet/Modbus 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 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 Setting] > [Register as Foreign Device]** function.

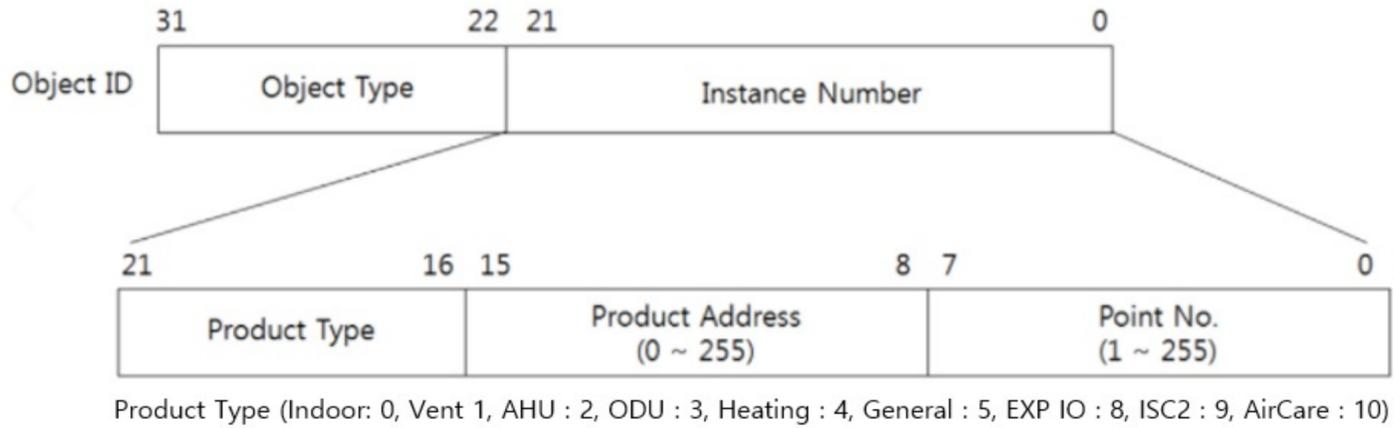
## BACnet Object List

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	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
14	Room Temperature	RoomTemp_XXX	AI	℃(°F)							
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	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
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	℃(°F)	18 ℃ ~ 30 ℃ (64 °F ~ 86 °F)						
28	Set Upper Temperature (Status)	TempRangeLowerLimitCommand_XXX	AV	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
29	Set Lower Temperature (Setting)	TempRangeUpperLimitStatus_XXX	AI	℃(°F)	18 ℃ ~ 30 ℃ (64 °F ~ 86 °F)						
30	Set Lower Temperature (Status)	TempRangeLowerLimitStatus_XXX	AI	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
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	℃(°F)	10 ℃ ~ 37.5 ℃ (50 °F ~ 99 °F)						
38	2Set Cooling Set Temperature (Status)	2SetCoolingTempStatus_XXX	AI	℃(°F)	10 ℃ ~ 37.5 ℃ (50 °F ~ 99 °F)						
39	2Set Heating Set Temperature (Setting)	2SetHeatingTempCommand_XXX	AV	℃(°F)	4 ℃ ~ 32 ℃ (40 °F ~ 90 °F)						
40	2Set Heating Set Temperature (Status)	2SetHeatingTempStatus_XXX	AI	℃(°F)	4 ℃ ~ 32 ℃ (40 °F ~ 90 °F)						
41	2Set Cooling Upper Temperature (Setting)	2SetCoolingUpperLimitCommand_XXX	AV	℃(°F)	10 ℃ ~ 37.5 ℃ (50 °F ~ 99 °F)						
42	2Set Cooling Upper Temperature (Status)	2SetCoolingUpperLimitStatus_XXX	AI	℃(°F)	10 ℃ ~ 37.5 ℃ (50 °F ~ 99 °F)						
43	2Set Cooling Lower Temperature	2SetHeatingUpperLimitCommand_XXX	AV	℃(°F)	4 ℃ ~ 32 ℃ (40 °F ~ 90 °F)						

	(Setting)												
44	2Set Cooling Lower Temperature (Status)	2SetHeatingUpperLimitStatus_XXX	AI	℃(°F)	4 ℃ ~ 32 ℃ (40 °F ~ 90 °F)								
45	2Set Heating Upper Temperature (Setting)	2SetCoolingLowerLimitCommand_XXX	AV	℃(°F)	10 ℃ ~ 37.5 ℃ (50 °F ~ 99 °F)								
46	2Set Heating Upper Temperature (Status)	2SetCoolingLowerLimitStatus_XXX	AI	℃(°F)	10 ℃ ~ 37.5 ℃ (50 °F ~ 99 °F)								
47	2Set Heating Lower Temperature (Setting)	2SetHeatingLowerLimitCommand_XXX	AV	℃(°F)	4 ℃ ~ 32 ℃ (40 °F ~ 90 °F)								
48	2Set Heating Lower Temperature (Status)	2SetHeatingLowerLimitStatus_XXX	AI	℃(°F)	4 ℃ ~ 32 ℃ (40 °F ~ 90 °F)								
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 Operation (Setting)	AirCleaningOperCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-	-	-
53	Air Cleaning Operation (Status)	AirCleaningOperStatus_XXX	BI	-	Stop (0)	Start (1)	-	-	-	-	-	-	-
54	PM10 (Status)	FineDustStatus_XXX	AI	µg/m <sup>3</sup>									
55	PM2.5 (Status)	UltraFineDustStatus_XXX	AI	µg/m <sup>3</sup>									
56	PM1.0 (Status)	SuperUltraFineDustStatus_XXX	AI	µg/m <sup>3</sup>									
57	Humidity (Status)	HumidityStatus_XXX	AI	%									
58	Comfort Cooling Available (Status)	ComfortCoolingAvail_XXX	BI	-	Disabled (0)	Enabled (1)	-	-	-	-	-	-	-
59	Comfort Cooling Operation (Setting)	ComfortCoolingOperCommand_XXX	BO	-	Stop (0)	Start (1)	-	-	-	-	-	-	-
60	Comfort Cooling Operation (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 Operation (Setting)	HumanDetectionOperCommand_XXX	MO	-	-	Stop (1)	OnOffSaving (2)	TempSaving (3)	-	-	-	-	-
65	Human Detection Operation (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	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
14	Room Temperature	RoomTemp_XXX	AI	℃(°F)							
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	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
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	℃(°F)	18 ℃ ~ 30 ℃ (64 °F ~ 86 °F)						
29	Set Upper Temperature (Status)	TempRangeLowerLimitCommand_XXX	AV	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
30	Set Lower Temperature (Setting)	TempRangeUpperLimitStatus_XXX	AI	℃(°F)	18 ℃ ~ 30 ℃ (64 °F ~ 86 °F)						
31	Set Lower Temperature (Status)	TempRangeLowerLimitStatus_XXX	AI	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
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	℃(°F)	18 ℃ ~ 30 ℃ (64 °F ~ 86 °F)						
14	Room Temperature	RoomTemp_XXX	AI	℃(°F)							
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	℃(°F)	18 ℃ ~ 30 ℃ (64 °F ~ 86 °F)						
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	℃(°F)							
29	Outdoor Unit Temperature (Status)	OutdoorTempStatus_XXX	AI	℃(°F)							
30	Mix Unit Temperature (Status)	MixTempStatus_XXX	AI	℃(°F)							
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)	CO2ValueStatus_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	°	0 ° ~ 90 °						
40	Current EA Damper (Status)	CurrEADamperStatus_XXX	AI	°	0 ° ~ 90 °						
41	Current Mix Damper (Status)	CurrMixDamperStatus_XXX	AI	°	0 ° ~ 90 °						
42	Cooling OA Damper (Setting)	OADamperCoolCommand_XXX	AV	°	0 ° ~ 90 °						
43	Cooling OA Damper (Status))	OADamperCoolStatus_XXX	AI	°	0 ° ~ 90 °						
44	Cooling EA Damper (Setting)	EADamperCoolCommand_XXX	AV	°	0 ° ~ 90 °						
45	Cooling EA Damper (Status))	EADamperCoolStatus_XXX	AI	°	0 ° ~ 90 °						
46	Cooling Mix Damper (Setting)	MixDamperCoolCommand_XXX	AV	°	0 ° ~ 90 °						
47	Cooling Mix Damper (Status))	MixDamperCoolStatus_XXX	AI	°	0 ° ~ 90 °						
48	Heating OA Damper (Setting)	OADamperHeatCommand_XXX	AV	°	0 ° ~ 90 °						
49	Heating OA Damper (Status))	OADamperHeatStatus_XXX	AI	°	0 ° ~ 90 °						
50	Heating EA Damper (Setting)	EADamperHeatCommand_XXX	AV	°	0 ° ~ 90 °						
51	Heating EA Damper (Status))	EADamperHeatStatus_XXX	AI	°	0 ° ~ 90 °						
52	Heating Mix Damper (Setting)	MixDamperHeatCommand_XXX	AV	°	0 ° ~ 90 °						
53	Heating Mix Damper (Status))	MixDamperHeatStatus_XXX	AI	°	0 ° ~ 90 °						
54	FAN OA Damper (Setting)	OADamperFanCommand_XXX	AV	°	0 ° ~ 90 °						
55	FAN OA Damper (Status))	OADamperFanStatus_XXX	AI	°	0 ° ~ 90 °						

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

## 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	CompressorSuctionTemp_XXX	AI	℃(°F)							
7	Liquid Pipe Temp	LiquidPipeTemp_XXX	AI	℃(°F)							
8	Heat Exchange Temp	HeatExchangeTemp_XXX	AI	℃(°F)							
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	℃(°F)							
13	Air Temp	AirTemp_XXX	AI	℃(°F)							
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	℃(°F)							
20	Std1 Discharge Temp	Std1DischargeTemp_XXX	AI	℃(°F)							
21	Std2 Discharge Temp	Std2DischargeTemp_XXX	AI	℃(°F)							
22	Upper Hex Temp	UpperHexTemp_XXX	AI	℃(°F)							
23	Lower Hex Temp	LowerHexTemp_XXX	AI	℃(°F)							
24	Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI	℃(°F)							
25	Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI	℃(°F)							
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	CompressorSuctionTemp_XXX	AI	℃(°F)							
71	(Slave1) Liquid Pipe Temp	LiquidPipeTemp_XXX	AI	℃(°F)							
72	(Slave1) Heat Exchange Temp	HeatExchangeTemp_XXX	AI	℃(°F)							
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	℃(°F)							
77	(Slave1) Air Temp	AirTemp_XXX	AI	℃(°F)							
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	℃(°F)								
84	(Slave1) Std1 Discharge Temp	Std1DischargeTemp_XXX	AI	℃(°F)								
85	(Slave1) Std2 Discharge Temp	Std2DischargeTemp_XXX	AI	℃(°F)								
86	(Slave1) Upper Hex Temp	UpperHexTemp_XXX	AI	℃(°F)								
87	(Slave1) Lower Hex Temp	LowerHexTemp_XXX	AI	℃(°F)								
88	(Slave1) Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI	℃(°F)								
89	(Slave1) Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI	℃(°F)								
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	CompressorSuctionTemp_XXX	AI	℃(°F)								
135	(Slave2) Liquid Pipe Temp	LiquidPipeTemp_XXX	AI	℃(°F)								
136	(Slave2) Heat Exchange Temp	HeatExchangeTemp_XXX	AI	℃(°F)								
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	℃(°F)								
141	(Slave2) Air Temp	AirTemp_XXX	AI	℃(°F)								
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	℃(°F)								
148	(Slave2) Std1 Discharge Temp	Std1DischargeTemp_XXX	AI	℃(°F)								
149	(Slave2) Std2 Discharge Temp	Std2DischargeTemp_XXX	AI	℃(°F)								
150	(Slave2) Upper Hex Temp	UpperHexTemp_XXX	AI	℃(°F)								
151	(Slave2) Lower Hex Temp	LowerHexTemp_XXX	AI	℃(°F)								
152	(Slave2) Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI	℃(°F)								
153	(Slave2) Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI	℃(°F)								
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	CompressorSuctionTemp_XXX	AI	℃(°F)							
199	(Slave3) Liquid Pipe Temp	LiquidPipeTemp_XXX	AI	℃(°F)							
200	(Slave3) Heat Exchange Temp	HeatExchangeTemp_XXX	AI	℃(°F)							
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	℃(°F)							
205	(Slave3) Air Temp	AirTemp_XXX	AI	℃(°F)							
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	℃(°F)							
212	(Slave3) Std1 Discharge Temp	Std1DischargeTemp_XXX	AI	℃(°F)							
213	(Slave3) Std2 Discharge Temp	Std2DischargeTemp_XXX	AI	℃(°F)							
214	(Slave3) Upper Hex Temp	UpperHexTemp_XXX	AI	℃(°F)							
215	(Slave3) Lower Hex Temp	LowerHexTemp_XXX	AI	℃(°F)							
216	(Slave3) Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI	℃(°F)							
217	(Slave3) Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI	℃(°F)							
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	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
8	Set Room Temperature (Status)	SetRoomTempStatus_XXX	AI	℃(°F)	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
9	Set Hot Water Temperature (Setting)	SetHotWaterTempCommand_XXX	AV	℃(°F)	30 ℃ ~ 80 ℃ (86 °F ~ 176 °F)						
10	Set Hot Water Temperature (Status)	SetHotWaterTempStatus_XXX	AI	℃(°F)	30 ℃ ~ 80 ℃ (86 °F ~ 176 °F)						
11	Set PipeOut Water Temperature (Setting)	SetPipeOutWaterTempCommand_XXX	AV	℃(°F)	6 ℃ ~ 80 ℃ (42 °F ~ 176 °F)						
12	Set PipeOut Water Temperature (Status)	SetPipeOutWaterTempStatus_XXX	AI	℃(°F)	6 ℃ ~ 80 ℃ (42 °F ~ 176 °F)						
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	℃(°F)							
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	℃(°F)							
21	Water Tank Temperature Status	TankTempStatus_XXX	AI	℃(°F)							
22	Solar Temperature Status	SolarTempStatus_XXX	AI	℃(°F)							
23	Pipe Outlet Temperature tatus	PipeOutTempStatus_XXX	AI	℃(°F)							
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	℃(°F)	18 ℃ ~ 30 ℃ (64 °F ~ 86 °F)						
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)	°F (1)	-	-	-	-	-
14	Temperature Unit Setting (Status)	TempUnitStatus	BI	-	℃ (0)	°F (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	℃(°F)							
8	Chilled Water Leaving Temp	ChilledWaterLeavingTemp_XXX	AI	℃(°F)							
9	Chilled Water Entering Temp	ChilledWaterEnteringTemp_XXX	AI	℃(°F)							
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	℃(°F)							
16	Cycle1_2 Water Leaving Temp	Cycle1_2WaterLeavingTemp_XXX	AI	℃(°F)							
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	℃(°F)							
24	Cycle2_2 Water Leaving Temp	Cycle2_2WaterLeavingTemp_XXX	AI	℃(°F)							
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	℃(°F)							
32	Cycle3_2 Water Leaving Temp	Cycle3_2WaterLeavingTemp_XXX	AI	℃(°F)							
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	℃(°F)							
42	Set Hot Water Temp	SetHotWaterTemp_XXX	AV	℃(°F)							

## 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 Setting] > [Modbus TCP enable]** as **Set**.
- In case of installing 2 or more ACP 5, you must change **[Settings] > [BACnet/Modbus 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

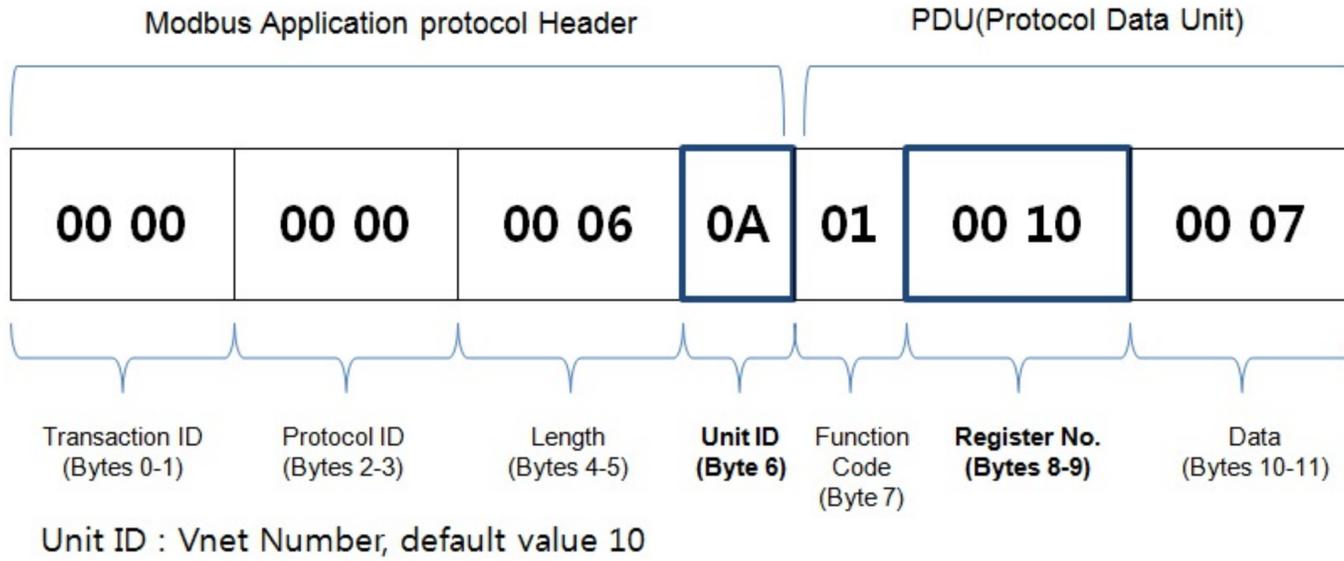
It describes the Modbus Register List provided by ACP 5.

- 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 °F ~ 86 °F)						
4	Set Upper Temperature	03/06	℃	18 ℃ ~ 30 ℃ (64 °F ~ 86 °F)						
5	Set Lower Temperature	03/06	℃	16 ℃ ~ 30 ℃ (60 °F ~ 86 °F)						
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 °F ~ 86 °F)						

## 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 °F ~ 86 °F)						
3	Supply Unit Temperature	03	℃							
4	Outdoor Unit Temperature	03	℃							
5	Ventilation Unit Temperature	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	°							
2	Current EA Damper	03	°							
3	Current Mix Damper	03	°							
4	Cooling OA Damper	03/06	°	0 ° ~ 90 °						
5	Cooling EA Damper	03/06	°	0 ° ~ 90 °						
6	Cooling Mix Damper	03/06	°	0 ° ~ 90 °						
7	Heating OA Damper	03/06	°	0 ° ~ 90 °						
8	Heating EA Damper	03/06	°	0 ° ~ 90 °						
9	Heating Mix Damper	03/06	°	0 ° ~ 90 °						
10	FAN OA Damper	03/06	°	0 ° ~ 90 °						
11	FAN EA Damper	03/06	°	0 ° ~ 90 °						
12	FAN Mix Damper	03/06	°	0 ° ~ 90 °						

## 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	℃							

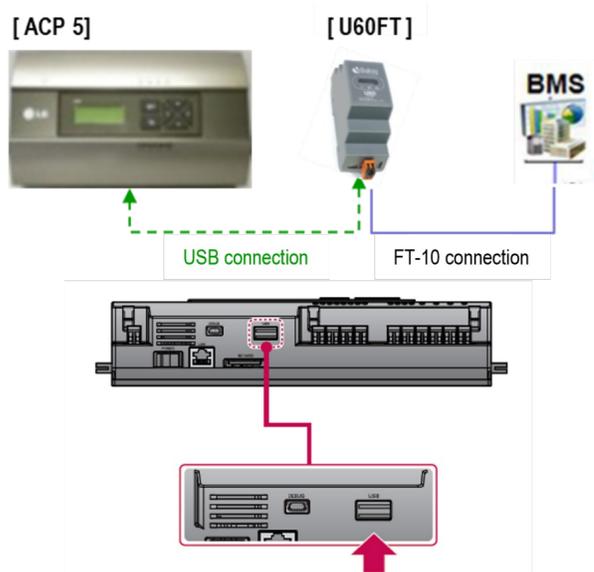
## Lonworks Commission

BMS系统与ACP 5 最初的联动过程被称为调试

1. 安装 ACP 5 后, 在连接到 BMS 系统之前, 请使用网页登录 检查联动设备的运行状态。
2. 准备好 U60FT 通信模块后, 如图所示连接 USB 和 FT-10 通信线路。
3. 在 [设置] > [BACnet/Modbus/Lonworks 设置] 中, 设置 [使用 Lonworks] 和 [温度单位], 并按下“应用”按钮激活 [SVC 引脚设置]。
4. BMS 工程界面出现 SVC 引脚设置画面时, 如果与BMS之间通信连接正常的情况下, 请点击已经激活的“连接”按钮。

## Precautions

- 使用 Lonworks 通信协议连接 BMS 系统时, 需要一个单独的通信模块。
- 与BMS系统联动时, LG仅提供可联动设备的点列表。





## 功能块清单

ACP 5 功能的功能块清单说明

- 室内机功能块
- ERV 功能块
- ERV DX 功能块
- AWHP 功能块

## 室内机功能块

### ① Standard Function Block

undefined	
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	nviTmplug_Humid
SNVT_temp_p	nviLow_HW_Tmp
SNVT_temp_p	nviUp_Tmp

SCC(8500)  
FB

IDU  
网络变量

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	nvoTmplug_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  
网络变量

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



27	用电量	SNVT_elec_kwh_l	nvoAccuPw	output	0~214,748,364.6
----	-----	-----------------	-----------	--------	-----------------

⑤ 空调 General NV(网络变量) 列表

	Name	Object Type	网络变量	Input / Output	Unit
1	峰值转换周四(second) (setting)	SNVT_count	nviPeakSwTime	input	300~900
2	峰值转换周四(second) (status)	SNVT_count	nvoPeakSwTime	output	300~900
3	峰值目标运行率(%) (setting)	SNVT_lev_percent	nviPeakTgtRate	input	0~100
4	峰值目标运行率(%) (status)	SNVT_lev_percent	nvoPeakTgtRate	output	0~100
5	温度单位 (setting)	SNVT_switch	nviTempUnit	input	0.0 0(摄氏) 100.0 1(华氏)
6	温度单位 (status)	SNVT_switch	nvoTempUnit	output	0.0 0(摄氏) 100.0 1(华氏)
7	全体温度设定	SNVT_switch	nviAllTemplock	input	0.0 0(解除) 100.0 1(锁定)
8	全体 开/关	SNVT_switch	nviTotalOnOff	input	0.0 0(关闭) 100.0 1(开启)
9	全体温度设定	SNVT_temp_p	nviTotalTemp	input	16 ~ 30℃ (60 ~ 86°F)
10	峰值现行运行率 (%)	SNVT_lev_percent	nvoPeakCurRate	output	0~100
11	总累计用电量 (Kwh)	SNVT_elec_kwh_l	nvoTotalAccuPw	output	0~214,748,364.6
12	室外机除霜	SNVT_state_64	nvoDefrost	output	0(关闭), 1(开启)

## ERV 功能块

### 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  
网络变量

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  
网络变量

### ③ 控制/监控 Point

控制	
开/关	运行模式
锁定	风速设定
加热器	附加功能
全体 开/关	

监控	
开/关	运行模式
锁定	风速设定
加热器	附加功能
连接设备类型	连接设备地址
Alarm	

※ 如图所示，您可监控一台 ERV 设备。

※ 网络变量可能与实际值不同。

### ④ 换气 Standard NV(网络变量) 列表

	Name	Object Type	网络变量	Input / Output	Unit		
1	开/关 (setting)	SNVT_switch	nviOnOff	input	0.0 0(关闭)	100.0 1(开启)	
2	开/关 (status)	SNVT_switch	nvoOnOff	output	0.0 0(关闭)	100.0 1(开启)	
3	运行模式 (setting)	SNVT_hvac_mode	nviHeatCool	input	HVAC_AUTO(自动)	HVAC_HEAT(热交换)	HVAC_FAN_ONLY(正常)
4	运行模式 (status)	SNVT_hvac_mode	nvoHeatCool	ouput	HVAC_AUTO(自动)	HVAC_HEAT(热交换)	HVAC_FAN_ONLY(正常)



## ERV DX 功能块

### 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	nviTmplug_Humid
SNVT_count	nviUsrmod
SNVT_switch	nviDUrun_HWEn
SNVT_hvac_mode	nviDUmod

SCC(8500)  
FB

ERV DX  
网络变量

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	nvoTmplug_Humid
SNVT_count	nviUsrmod
SNVT_switch	nviDUrun_HWEn
SNVT_hvac_mode	nviDUmod
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  
网络变量

General Function Block	
SNVT_switch	nvoTempUnit

### ③ 控制/监控 Point

控制	
开/关	运行模式
锁定	温度设定
风速设定	加热器
加湿	附加功能
空调运行	空调模式
温度单位	全体 开/关
全体温度设定	



## AWHP 功能块

### 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	nviDUrun_HWEn
SCC(8500) FB	
AWHP 网络变量	

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	nvoDUrun_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 网络变量	

General Function Block	
SNVT_switch	nvoTempUnit

### ③ 控制/监控 Point

控制	
开/关	运行模式
锁定	温度设定
热水温度	热水开/关 (设置)
温度单位	全体 开/关
全体温度设定	

监控	
开/关	运行模式
锁定	温度设定
热水温度	太阳能温度状态





## 网络变量

ACP 5 提供的网络变量说明

- 空调, 换气, DXERV, AWHP 输入/输出
- 空调, 换气, DXERV, AWHP 输出
- 空调, 换气, DXERV, AWHP 一般 输入/输出

## 空调, 换气, DXERV, AWHP 输入/输出

### 1. 开/关(空调, 换气, DXERV, AWHP)

输入(Input)	Function	开/关
	Using NV	Network Input : (SNVT_switch) nviOnOff
	Operation	开/关 控制
输出(Output)	Function	开/关
	Using NV	Network Output : (SNVT_switch) nvoOnOff
	Operation	开/关 监控

#### Valid Range

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

### 2. 运行模式(空调, 换气, DXERV, AWHP)

输入(Input)	Function	运行模式
	Using NV	Network Input : (SNVT_hvac_mode) nviHeatCool
	Operation	运行模式 控制
输出(Output)	Function	运行模式
	Using NV	Network Output : (SNVT_hvac_mode) nvoHeatCool
	Operation	运行模式 监控

#### Valid Range

NV	Field	Operation					
SVNT_hvac_mode	Value	Not Used(Set in 0% usually)					
	State	HVAC_AUTO = 自动	HVAC_HEAT = 制热	HVAC_COOL = 制冷	HVAC_FAN_ONLY = 送风	HVAC_DEHUMID = 除湿	空调
		HVAC_AUTO = 自动	HVAC_HEAT = 热交换		HVAC_FAN_ONLY = 正常		换气
		HVAC_AUTO = 自动	HVAC_HEAT = 热交换		HVAC_FAN_ONLY = 正常		DXERV
		HVAC_AUTO = 自动	HVAC_HEAT = 制热	HVAC_COOL = 制冷			AWHP(Single, Hydrokit)
		HVAC_AUTO = 自动	HVAC_HEAT = 制热				AWHP(Heatonly,Cascade)

### 3. Lock(空调, 换气, DXERV, AWHP)

输入(Input)	Function	Lock锁定
	Using NV	Network Input : (SNVT_switch) nviLock
	Operation	Lock 控制
输出(Output)	Function	Lock锁定
	Using NV	Network Output : (SNVT_switch) nvoLock
	Operation	Lock 监控

#### Valid Range

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

### 4. 温度设定(空调, DXERV, AWHP)

输入(Input)	Function	温度设定
	Using NV	Network Input : (SNVT_temp_p) nviSetTemp
	Operation	温度设定 控制
输出(Output)	Function	温度设定
	Using NV	Network Output : (SNVT_temp_p) nvoSetTemp
	Operation	温度设定 监控

#### Valid Range

NV	Operation
SVNT_temp_p	空调, DXERV, AWHP(空气) : 16 ~ 30 °C (60 ~ 86 °F)
	AWHP(管道进口/出口) : 6 ~ 80 °C (42 ~ 176 °F)

5. 风速设定(空调, 换气, DXERV)

输入(Input)	Function	风速设定
	Using NV	Network Input : (SNVT_switch) nviFanSpeed
	Operation	风速设定 控制
输出(Output)	Function	风速设定
	Using NV	Network Output : (SNVT_switch) nvoFanSpeed
	Operation	风速设定 监控

Valid Range

NV	Field	Operation				
SVNT_switch	Value	0 = 自动	1 = 弱风	2 = 中风	3 = 强风	4 = 超强风
	State	Not Used(Set in 0 usually)				

6. 摆风(空调), 加热器(换气, DXERV)

输入(Input)	Function	摆风(空调), 加热器(换气, DXERV)
	Using NV	Network Input : (SNVT_switch) nviSwing_Heater
	Operation	摆风(空调), 加热器(换气, DXERV) 控制
输出(Output)	Function	摆风(空调), 加热器(换气, DXERV)
	Using NV	Network Output : (SNVT_switch) nvoSwing_Heater
	Operation	摆风(空调), 加热器(换气, DXERV) 监控

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = 关闭/解除 1 = 开启/设置

7. 模式锁定(空调)

模式锁定(空调)	Function	模式锁定(空调)
	Using NV	Network Input : (SNVT_switch) nviModlok
	Operation	模式锁定(空调) 控制
输出(Output)	Function	模式锁定(空调)
	Using NV	Network Output : (SNVT_switch) nvoModlok
	Operation	模式锁定(空调) 监控

Valid Range

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

8. 风速锁定(空调)

输入(Input)	Function	风速锁定(空调)
	Using NV	Network Input : (SNVT_switch) nviFanlok
	Operation	风速锁定(空调) 控制
输出(Output)	Function	风速锁定(空调)
	Using NV	Network Output : (SNVT_switch) nvoFanlok
	Operation	风速锁定(空调) 监控

Valid Range

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

9. 温度锁定(空调), 加湿(DXERV)

输入(Input)	Function	温度锁定(空调), 加湿(DXERV)
	Using NV	Network Input : (SNVT_switch) nviTmplek_Humid
	Operation	温度锁定(空调), 加湿(DXERV) 控制
输出(Output)	Function	温度锁定(空调), 加湿(DXERV)

输出(Output)	Using NV	Network Output : (SNVT_switch) nvoTmplok_Humid
	Operation	温度锁定(空调), 加湿(DXERV) 监控

Valid Range

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

#### 10. 温度下限(空调), 热水温度(AWHP)

输入(Input)	Function	温度下限(空调), 热水温度(AWHP)
	Using NV	Network Input : (SNVT_temp_p) nviLow_HW_Tmp
	Operation	温度下限(空调), 热水温度(AWHP) 控制
输出(Output)	Function	温度下限(空调), 热水温度(AWHP)
	Using NV	Network Output : (SNVT_temp_p) nvoLow_HW_Tmp
	Operation	温度下限(空调), 热水温度(AWHP) 监控

Valid Range

NV	Operation
SVNT_temp_p	温度下限(空调) : 16 ~ 30 °C (60 ~ 86 °F)
	热水温度(AWHP) : 30 ~ 80 °C (86 ~ 176 °F)

#### 11. 温度上限(空调) 输入/输出, 太阳能温度状态(AWHP) 输出

输入(Input)	Function	温度上限(空调)
	Using NV	Network Input : (SNVT_temp_p) nviUp_Tmp
	Operation	温度上限(空调) 控制
输出(Output)	Function	温度上限(空调), 太阳能温度状态(AWHP)
	Using NV	Network Output : (SNVT_temp_p) nvoUp_Sol_Tmp
	Operation	温度上限(空调), 太阳能温度状态(AWHP) 监控

Valid Range

NV	Operation
SVNT_temp_p	温度上限(空调) : 16 ~ 30 °C (60 ~ 86 °F)
	太阳能温度状态(AWHP) : 0 ~ 99 °C (32 ~ 211 °F)

#### 12. 进风(水) 温度/出风(水) 温度(AWHP)

输出(Output)	Function	进风(水) 温度/出风(水) 温度(AWHP)
	Using NV	Network Output : (SNVT_switch) nvoFilt_Tmpsel
	Operation	进风(水) 温度/出风(水) 温度(AWHP) 监控

Valid Range

NV	Field	Operation
SVNT_switch	Value	Not Used(Set in 0% usually)
	State	0 = 空气
		1 = 管道进口/出口

#### 13. 空调运行(DXERV), 热水开/关(AWHP)

输入(Input)	Function	空调运行(DXERV), 热水开/关(AWHP)
	Using NV	Network Input : (SNVT_switch) nviDUrun_HWEEn
	Operation	空调运行(DXERV), 热水开/关(AWHP) 控制
输出(Output)	Function	空调运行(DXERV), 热水开/关(AWHP)
	Using NV	Network Output : (SNVT_switch) nvoDUrun_HWEEn
	Operation	空调运行(DXERV), 热水开/关(AWHP) 监控

Valid Range

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

#### 14. 空调模式(DXERV)

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输入(Input)	Function	空调模式(DXERV)
	Using NV	Network Input : (SNVT_hvac_mode) nviDUmod
	Operation	空调模式(DXERV) 控制
输出(Output)	Function	空调模式(DXERV)
	Using NV	Network Output : (SNVT_hvac_mode) nvoDUmod
	Operation	空调模式(DXERV) 监控

Valid Range

NV	Field	Operation		
SVNT_hvac_mode	Value	Not Used(Set in 0% usually)		
	State	HVAC_AUTO = 自动	HVAC_HEAT = 制热	HVAC_COOL = 制冷

#### 15. 附加功能(换气, DXERV)

输入(Input)	Function	User Mode 附加功能(换气, DXERV)
	Using NV	Network Input : (SNVT_count) nviUsrmod
	Operation	附加功能(换气, DXERV) 控制
输出(Output)	Function	User Mode 附加功能(换气, DXERV)
	Using NV	Network Output : (SNVT_count) nvoUsrmod
	Operation	附加功能(换气, DXERV) 监控

Valid Range

NV	Operation		
SVNT_count	0 = NONE	1 = 快速清新	2 = 节能



## 7. 水箱温度状态(AWHP)

输出(Output)	Function	水箱温度状态(AWHP)
	Using NV	Network Output : (SNVT_temp_p) nvoTankTmp
	Operation	水箱温度状态(AWHP) 监控

Valid Range

NV	Operation
SNVT_temp_p	0 ~ 99 °C (32 ~ 211 °F)

## 8. 管道进口温度状态(AWHP)

输出(Output)	Function	管道进口温度状态(AWHP)
	Using NV	Network Output : (SNVT_temp_p) nvoInTmp
	Operation	管道进口温度状态(AWHP) 监控

Valid Range

NV	Operation
SNVT_temp_p	0 ~ 99 °C (32 ~ 211 °F)

## 9. 管道出口温度状态(AWHP)

输出(Output)	Function	管道出口温度状态(AWHP)
	Using NV	Network Output : (SNVT_temp_p) nvoOutTmp
	Operation	管道出口温度状态(AWHP) 监控

Valid Range

NV	Operation
SNVT_temp_p	0 ~ 99 °C (32 ~ 211 °F)

## 空调, 换气, DXERV, AWHP 一般 输入/输出

### 1. PeakShiftTime 峰值转换周四(空调)

输入(Input)	Function	峰值转换周四
	Using NV	Network Input : (SNVT_count) nviPeakSwTime
	Operation	峰值转换周四 控制
输出(Output)	Function	峰值转换周四
	Using NV	Network Output : (SNVT_count) nvoPeakSwTime
	Operation	峰值转换周四 监控

Valid Range

NV	Operation
SVNT_count	300 ~ 900 second

### 2. 峰值目标运行率(空调)

输入(Input)	Function	峰值目标运行率
	Using NV	Network Input : (SNVT_lev_percent) nviPeakTgtRate
	Operation	峰值目标运行率 控制
输出(Output)	Function	峰值目标运行率
	Using NV	Network Output : (SNVT_lev_percent) nvoPeakTgtRate
	Operation	峰值目标运行率 监控

Valid Range

NV	Operation
SVNT_lev_percent	0 ~ 100 %

#### 注释

峰值目标运行率输入0~99%时表示峰值运行开启, 输入100%时表示关闭。

### 3. 温度单位(空调, DXERV)

输入(Input)	Function	温度单位
	Using NV	Network Input : (SNVT_switch) nviTempUnit
	Operation	温度单位 控制
输出(Output)	Function	温度单位
	Using NV	Network Output : (SNVT_switch) nvoTempUnit
	Operation	温度单位 监控

Valid Range

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

### 4. 全体温度锁定(空调)

输入(Input)	Function	全体温度锁定
	Using NV	Network Input : (SNVT_switch) nviAllTemplock
	Operation	全体温度锁定 控制

Valid Range

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

### 5. 全体 开/关(空调, 换气, DXERV, AWHP)

输入(Input)	Function	全体 开/关
	Using NV	Network Input : (SNVT_switch) nviTotalOnOff
	Operation	全体 开/关 控制

Valid Range

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

6. 全体温度设定(空调, DXERV, AWHP)

输入(Input)	Function	全体温度设定
	Using NV	Network Input : (SNVT_temp_p) nviTotalTemp
	Operation	全体温度设定 控制

Valid Range

NV	Operation
SVNT_temp_p	空调, DXERV, AWHP(空气) : 16 ~ 30 °C (60 ~ 86 °F)
	AWHP(管道进口/出口) : 6 ~ 80 °C (42 ~ 176 °F)

7. 峰值现行运行率(空调)

输出(Output)	Function	峰值现行运行率
	Using NV	Network Output : (SNVT_lev_percent) nvoPeakCurRate
	Operation	峰值现行运行率 监控

Valid Range

NV	Operation
SVNT_lev_percent	0 ~ 100 %

8. 总累计用电量(空调)

输出(Output)	Function	总累计用电量
	Using NV	Network Output : (SNVT_elec_kwh_l) nvoTotalAccuPw
	Operation	总累计用电量 监控

Valid Range

NV	Operation
SNVT_elec_kwh_l	0~214,748,364.6 kwh

9. 室外机除霜(空调)

输出(Output)	Function	室外机除霜
	Using NV	Network Output : (SNVT_state_64) nvoDefrost
	Operation	室外机除霜 监控

Valid Range

NV	Operation
SVNT_state_64	0(关闭), 1(开启)

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Version 2.1, February 1999

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## 9. TERM AND TERMINATION

(a) Term. This Agreement shall continue in full force and effect unless and until terminated as provided herein.

(b) Termination.

If either party defaults in the performance of any provision of this Agreement, then the non-defaulting party may give written notice to the defaulting party that if the default is not cured within thirty (30) days the Agreement will be terminated. If the non-defaulting party gives such notice and the default is not cured during the thirty (30) day period, then the Agreement will terminate immediately upon notice by the non-defaulting party.

This Agreement will terminate automatically without notice, (a) upon the institution by or against Licensee of insolvency, receivership or bankruptcy proceedings or any other proceedings for the settlement of Licensee's debts, (b) upon Licensee's making an assignment for the benefit of creditors, or (c) in the event of Licensee's dissolution or insolvency.

Licensee may terminate this Agreement for any reason or for no reason upon written notice to Adesto.

(c) Effect of Termination. In the event of termination of this Agreement, all rights and licenses granted herein shall terminate, except that in the event that this Agreement terminates due to Adesto's material breach of this Agreement, in which case, and provided that Licensee continues fully to perform its obligations hereunder without breach of any kind: (i) Licensee may continue to distribute Licensee's Application for a period of ninety (90) days after the effective date of such termination; and (ii) Licensee may continue to use the Licensed Software only to provide support for third party End Users existing as of the end of the ninety (90) day period only for so long as Licensee is contractually obligated to provide such support and for internal End Users for a one hundred eighty (180) day period after the effective date of termination. Promptly following termination of Licensee's rights under this Section 9(c), Licensee shall return to Adesto all copies of the Licensed Software and Licensed Materials then in its possession or control and shall erase any such copies from computer memory.

(d) Survival. The parties' rights and obligations under Sections 2(c), 2(d), 2(e), 2(f), 3, 4, 5, 6, 7(a), 8, 9(c), 9(d), 9(e), 10, and the relevant provisions of Section 11, shall survive any termination of this Agreement. All End User licenses granted by Licensee to End Users prior to termination of this Agreement, or during the ninety (90) day period provided for in Section 9(c) above, as applicable, shall also survive.

(e) No Waiver. The failure of either party to enforce any provision of this Agreement shall not be deemed a waiver of such provision. The rights of Adesto under this Section 9 are in addition to any other rights and remedies provided by law or under this Agreement.

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(c) No Assignment. Adesto may assign or delegate its rights or obligations hereunder in the case of a transfer of ownership or control of all or substantially all of its assets to which this Agreement pertains. No assignments or delegations by either party other than those set forth herein shall be permitted, and any such attempted assignment by either party in violation of this Section 11 shall be void. Subject to the foregoing, this Agreement shall be binding upon and inure to the benefit of the parties hereto and their successors, assigns, heirs and legal representatives.

(d) Independent Contractors. The relationship of Adesto and Licensee established by this Agreement is that of independent contractors, and nothing contained in this Agreement shall be construed to (i) give either party the power to direct and control the day-to-day activities of the other, (ii) constitute the parties as partners, joint venturers, co-owners, franchiser and franchisee or otherwise as participants in a joint or common undertaking, or (iii) allow either party to create or assume any obligation on behalf of the other party for any purpose whatsoever. All financial obligations associated with each party's business are the sole responsibility of that party.

(e) Compliance with Laws. In exercising its rights under this license, Licensee shall fully comply with the requirements of any and all applicable laws, regulations, rules and orders of any governmental body having jurisdiction over the exercise of rights under this license.

(f) Notices. All notices and other communications under this Agreement shall be in writing and shall be deemed given if delivered personally, mailed by registered or certified mail, return receipt requested, or otherwise delivered by hand, by messenger, by courier or by telecommunication, to the parties set forth above. In the case of Adesto, such notices shall be addressed to the General Counsel, with a copy to Adesto IzoT SDK Product Manager, and in the case of Licensee, such notices shall be addressed to the person indicated in connection with the online registration completed by Licensee. Either party may change its designated addressee by written notice to the other party.

(g) Entire Agreement. This Agreement represents the entire agreement of the parties with respect to the subject matter hereof and supersedes all prior or contemporaneous agreements, understandings, proposals and representations between or by the parties.

(h) Severability. If any provision of this Agreement shall be held by a court of competent jurisdiction to be illegal, invalid or unenforceable, the remaining provisions shall remain in full force and effect, and then such provision shall be reformed to the minimum extent necessary to be legal, valid and enforceable.

(i) Language. This Agreement is in the English language only, which language shall be controlling in all respects, and all versions hereof in any other language shall not be binding on the parties hereto. All communications and notices to be made or given pursuant to this Agreement shall be in the English language.

(j) Governmental Approval. Licensee represents and warrants that no consent, approval or authorization of or designation, declaration or filing with any governmental authority is required in connection with the valid execution, delivery and performance of this Agreement. Alternatively, if any such actions are required, Licensee agrees to use its best efforts to obtain such consent, approval or authorization and agrees to complete such designation, declaration or filing. Adesto will cooperate as reasonably requested by Licensee for the completion of such required actions. Licensee promptly will provide Adesto with copies of any documents in connection with such actions.

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## IzoT SOFTWARE DEVELOPER'S KIT PREMIUM EDITION LICENSE AGREEMENT

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