



EXT-KA-SE200P



www.belimo.com

info.asiapacific@belimo.ch

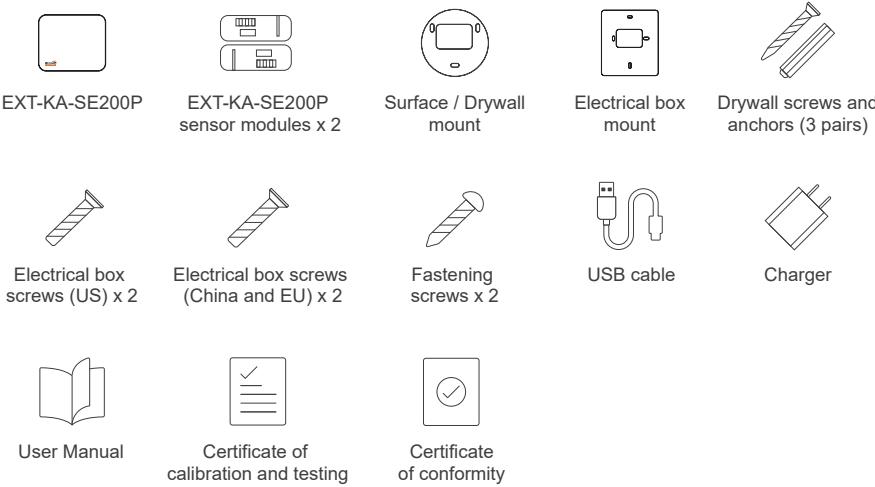
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EXT-KA-SE200P User Manual

What's Included



Important Safeguards

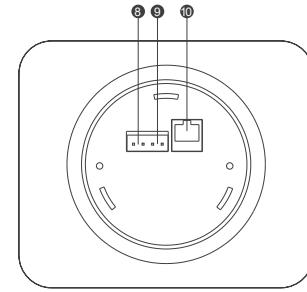
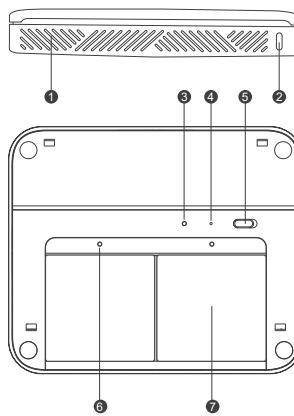
Please read the safety warnings before use and take the necessary precautions to reduce the risk of fire, electric shock, or injury.

WARNING

- To reduce safety risks, always use service personnel from the manufacturer or service provider, or other qualified personnel for installation and maintenance.
- Make sure the power is OFF during installation or maintenance.
- DO NOT tamper with or use nonofficial spare parts for repair or maintenance.
- DO NOT use the device in environments with high humidity or possible direct exposure to water.
- DO NOT use the device in an outdoor environment.
- DO NOT use the device near heat sources such as radiators, furnaces, ovens, or stoves.

Getting Started

The EXT-KA-SE200P is a building-grade air quality monitor. This user manual will provide a basic guide to its first use.



① Air intake	⑥ Module status light
② USB-C	⑦ Module
③ STATUS light	⑧ RS-485
④ RESET pinhole	⑨ Direct wiring
⑤ ON/OFF switch	⑩ Ethernet port

Externals and Air Flow

Air is drawn into the EXT-KA-SE200P from the lower side, as well as the air intake on the upper side. It is vital that neither side of the device is covered. Any changes in airflow may affect the readings and accuracy.

Power and Connectivity

The EXT-KA-SE200P provides multiple power and connectivity options:

Power:

- USB-C: Only use the cable and charger/adapter supplied with the device
- DC direct wiring: Used for power supply of 12-30V DC
- PoE (Power over Ethernet)

Connectivity:

- 2.4GHz Wi-Fi (802.11 b/g/n)
- Ethernet: Used for data transfer via Ethernet
- RS-485: Used for Modbus communication

Sensor Modules

The EXT-KA-SE200P utilizes a modular design to allow for easy control and replacement of sensors. A CO₂ sensor and a temperature and relative humidity sensor are built into the core of the device, and a variety of other sensors may be inserted using the two sensor bays on the lower side of the device.

To insert a sensor module, simply align it with the bay and press it in, ensuring the Belimo logo on the plastic tab is facing outwards. When inserted correctly, the module will click into place, and an LED light above the bay will briefly flash red if the device is powered on.

To remove a sensor module, gently pull the tab outward and remove the module from the bay. Make sure to pull at a 90 degree angle.

Sensors may be inserted in either sensor bay, and in any order. They may be swapped both when the EXT-KA-SE200P is powered on and operational, and when the device is turned off.

By default, the EXT-KA-SE200P is shipped with the EXT-KA-KM200 and EXT-KA-KM203 sensor modules, which together measure PM_{2.5} and TVOC.

Sensor Module Status Light Indications:

Steady OFF	Sensor working normal
Flash red once	Sensor module powered on
Steady ON	Sensor module needs to be changed
Flash	Sensor module failure
Flash slowly	Sensor module in sleep mode

Control and Status

Move the ON/OFF switch to turn on the device. The STATUS light will go on briefly to indicate the device has been powered on.

To reset the device, use a paperclip and hold down the RESET pinhole. The STATUS light will flash red rapidly, indicating that the reset is successful.

STATUS Light Indications:

Standard operation:

Steady OFF	Device working normal
Flash red once	Device powered on
Flash red rapidly	Reset successful

Configuration:

Flash yellow	Device in configuration mode
Flash green rapidly	Connecting to the network
Glow green gradually	Connecting to the cloud

Troubleshooting:

Steady ON in red	Device failure
Flash red	No network connection

Installation

The EXT-KA-SE200P can be mounted on a concrete block wall, drywall, or to an electrical box.

EXT-KA-SE200P用户手册

包装清单



重要预防措施

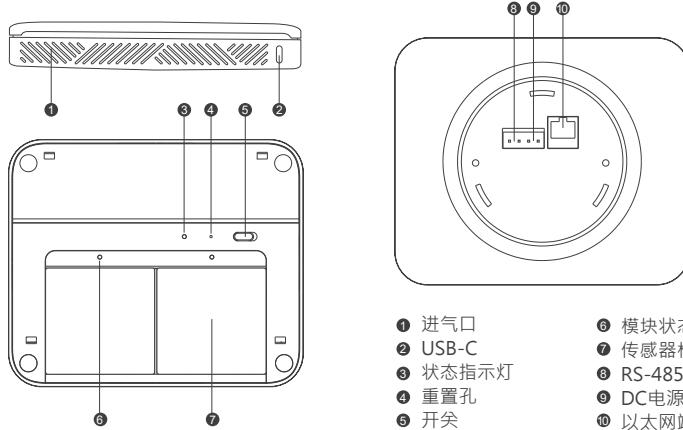
请在使用前阅读安全须知，并采取必要预防措施来降低火灾、电击或受伤的风险。

安全须知

- 为了避免危险，必须始终由制造商、服务代理商或有资质的人员进行安装、维护等操作。
- 安装与维护前，请确保电源已断开。
- 请勿以任何方式改造或使用非官方配件维修维护设备。
- 请勿将设备置于高湿度环境或可能直接接触水的位置。
- 请勿将设备置于室外。
- 请勿将设备放在散热器、壁炉、烤箱、炉灶等热源附近。

开始使用

EXT-KA-SE200P是一款商用空气质量监测仪。此手册为用户首次使用设备提供指导。



外观和空气流动

EXT-KA-SE200P的进气口位于设备的上方和下方，使用时请确保设备的任何一侧都不能被覆盖。气流的变化可能影响EXT-KA-SE200P的读数及准确性。

供电和联网方式

EXT-KA-SE200P提供多种供电和联网选择：

供电：

- USB-C：仅可使用设备随附的数据线及充电器或适配器
- DC电源接口：用于12-30V DC供电
- PoE (通过以太网供电)

联网：

- 2.4GHz Wi-Fi (802.11 b/g/n)
- 以太网：用于通过以太网进行数据传输
- RS-485：用于支持Modbus通讯

传感器模块

EXT-KA-SE200P采用模块化设计，便于控制及更换传感器。其中，二氧化碳和温湿度传感器内置于设备内部，设备下方的两个传感器凹槽可用于装载各种其他的传感器模块。

安装传感器模块时，只需将传感器轻压入凹槽内，确保铝制外壳上的Belimo标志朝外即可。当正确安装后，模块将被锁定在凹槽内。如设备已经接入电源，模块凹槽上方的模块状态指示灯会短暂亮起且呈红色。

如需拆卸模块，轻轻提起拉环，使拉环与模块呈90度角，然后向外拉动，即可从凹槽内拆下模块。

传感器模块可以安装到任何一个传感器凹槽中，并且任意顺序安装均可。传感器模块在EXT-KA-SE200P开机运行时以及关闭时均可进行更换。

默认情况下，EXT-KA-SE200P随机附带EXT-KA-KM200和EXT-KA-KM203传感器模块，检测PM_{2.5}与TVOC。

传感器模块状态指示灯含义：

指示灯不亮	传感器正常工作
红灯闪烁一次	传感器模块接入电源成功
红灯长亮	需要更换传感器模块
红灯闪烁	传感器模块故障
红灯慢速闪烁	传感器进入睡眠模式

设备控制和状态

拨动开关，打开设备。当设备状态指示灯短暂亮起，表示设备成功开机。

如需重置设备，请使用回形针长按重置孔，直到状态指示灯开始快速闪烁红色，即表示设备重置成功。

状态指示灯含义：

通用：

指示灯不亮	设备正常工作
红灯短暂亮起	设备成功开机
红灯快速闪烁	设备重置成功

配置：

黄灯闪烁	设备处于配置模式
绿灯快速闪烁	正在接入网络或通讯
绿灯明暗变换闪烁	正在接入云端

故障排除：

红灯长亮	设备故障
红灯闪烁	没有网络连接

安装EXT-KA-SE200P

支持墙面表面安装、石膏板墙安装以及有底盒安装等方式。