

# Sensedge Mini Installation Guide

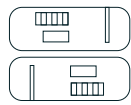
## Electrical Box Mount (US)

# 1 What you will need

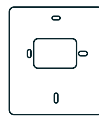
## Parts



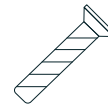
Sensedge Mini



Sensedge Mini  
sensor modules x 2



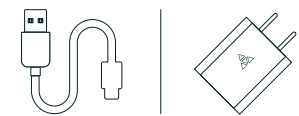
Electrical box  
mount



Electrical box  
screws (US) x 2

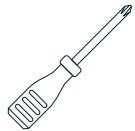


Fastening  
screws x 2



USB cable & Charger  
(Power via USB-C only)

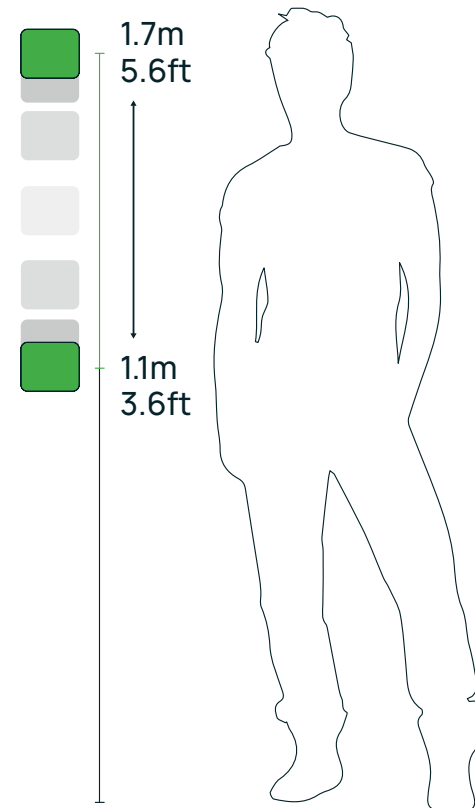
## Tools



Cross screwdriver

## 2 Where to place your Sensedge Mini

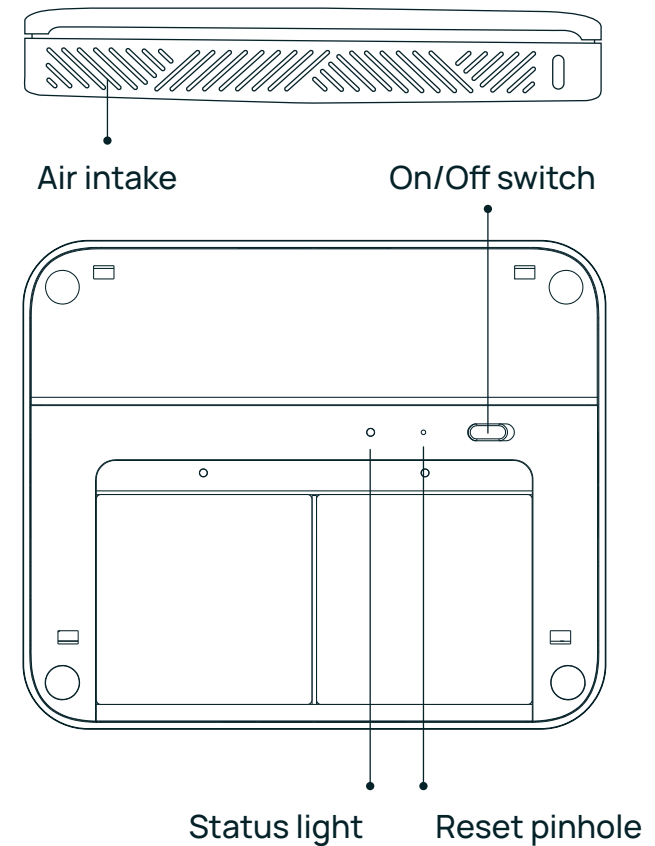
Install your device in occupied space at 1.1-1.7m (3.6-5.6 ft) above the floor (away from doors, windows, air supply and zones where occupants may exhale directly into the sensor). Please make sure that your desired mounting location is close to a power source.



# 3 Know your device

Remove the front cover of the Sensedge Mini, and you will find the ON/OFF switch and RESET pinhole, as well as a device status light.

Air is drawn into the Sensedge Mini 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.

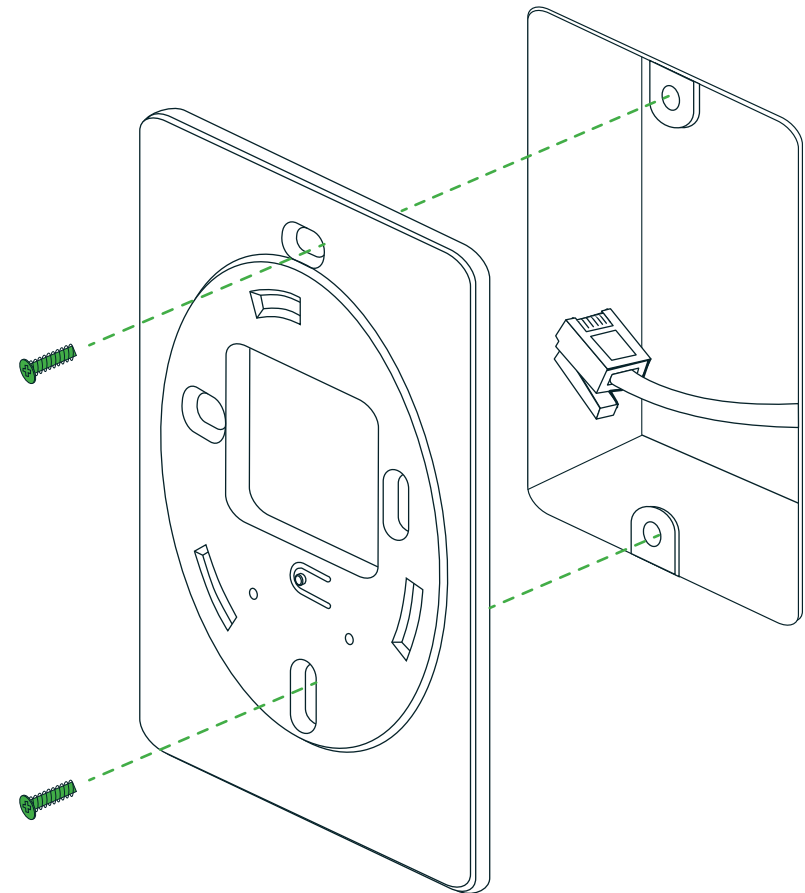


# 4 Install the Electrical Box Mount

Find the Electrical Box Mount (rectangular shaped) included in the packaging. Line up the plate with your in-wall electrical box and mount it in place using provided Electrical Box Screws and the two screw holes indicated below.



Electrical box screws (US) x 2

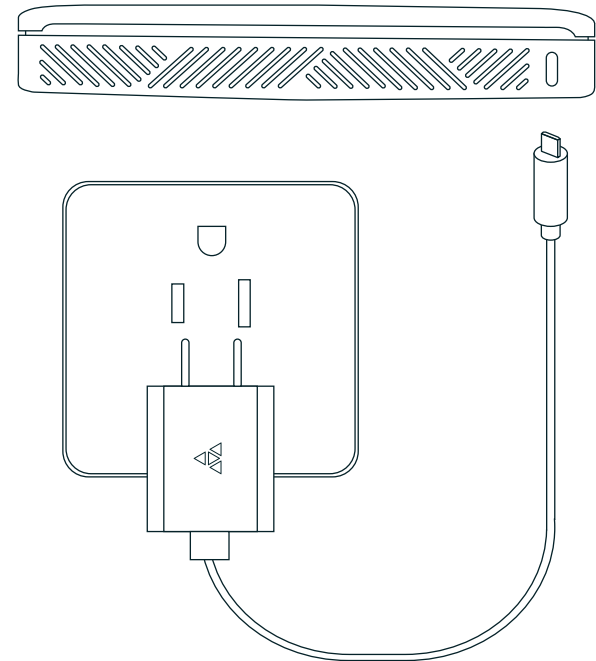


# 5 Choose your power option

The Sensedge Mini supports both USB-C and direct wiring power options. The SE000200P model of the Sensedge Mini also provides PoE (Power over Ethernet). Choose the power option best suited for your project and follow the instructions accordingly.

## A. Power the device with USB-C cable and adapter

Power the Sensedge Mini by connecting the device to a charging port using the USB-C cable and adapter. The charging port is located at the bottom of the device.



## B. Power the device via direct wiring

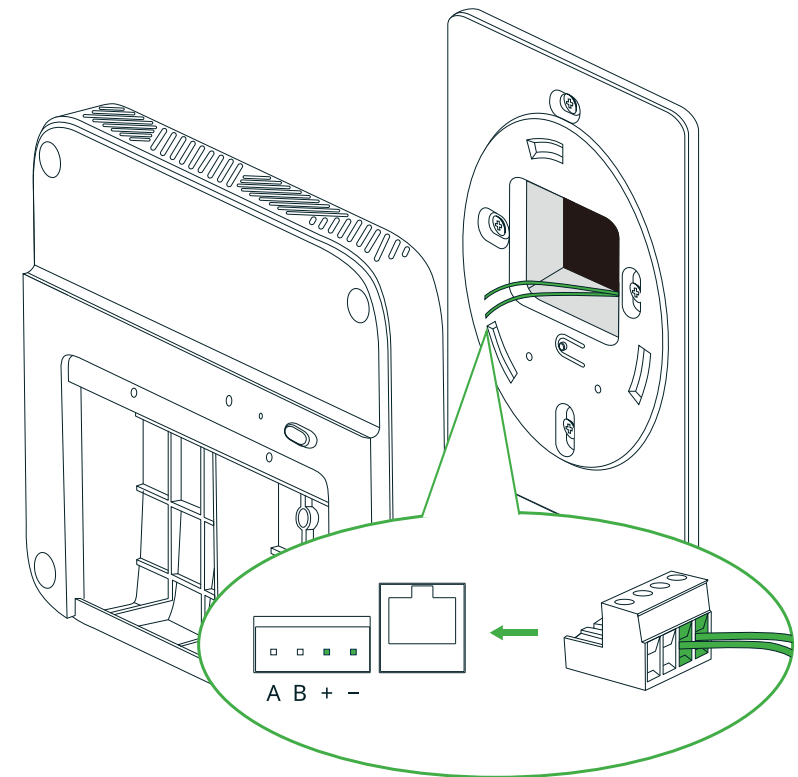
### IMPORTANT SAFEGUARDS

- Please use a power source within the range in the product specification. Please contact the facility manager or other responsible personnel if the power source specification is not clear.
- The device must be installed by certified electricians or other authorized personnel ONLY. When installing the device, ALWAYS follow safety precautions to reduce risk of fire, electric shock, injury to persons.
- Make sure the power is cut off before proceeding!

### Direct Wiring

To power your device via direct wiring, connect your electrical wires from your low voltage transformer to a 4-pin Phoenix pin plug. Check the “+” “-” marks on the back of the device to make sure the wires are connected in the right order, and fasten the screws on the Phoenix pin plug to secure the wires.

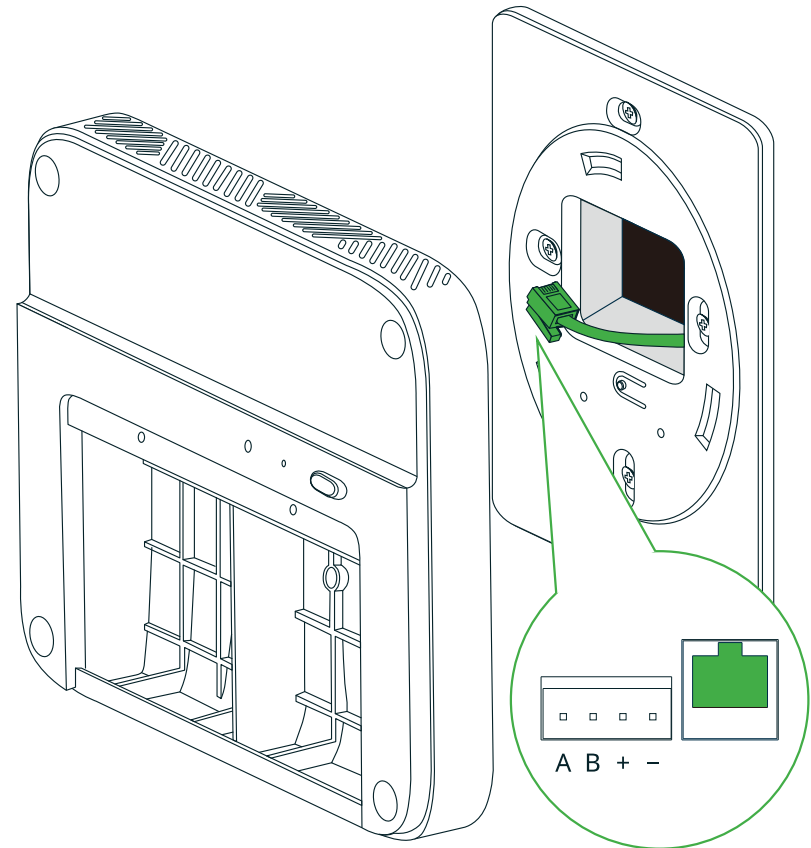
Run the wires through the opening on the plate, and plug the 4-pin Phoenix pin plug into the corresponding terminals on the back of the device.



## C. Power the device via PoE

If you have the SE000200P model of the Sensedge Mini, you can also choose to power the device via PoE.

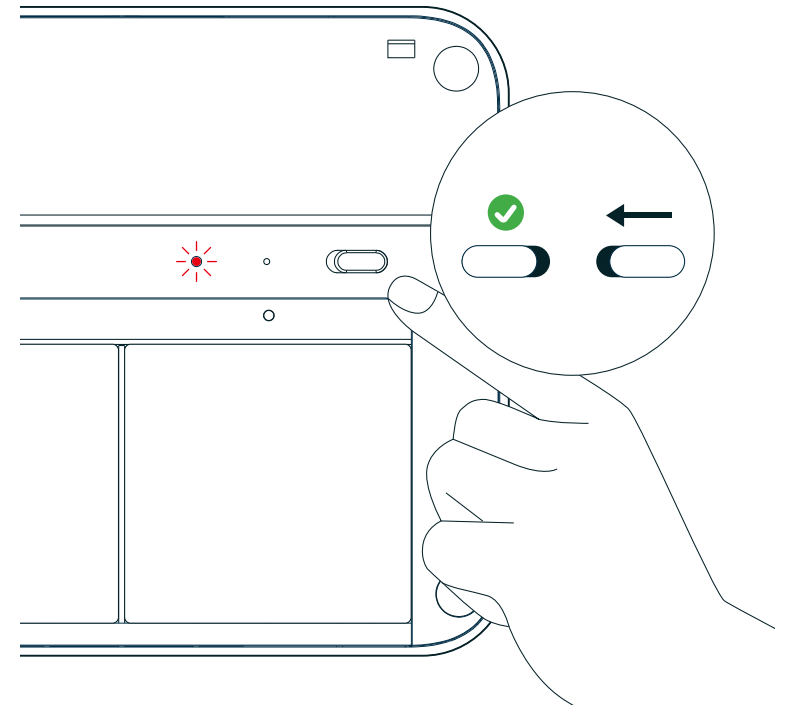
Run your Ethernet cable from your PSE (Power Sourcing Equipment), through the opening on the plate, and into the Ethernet port on the back side of the device. Once the device is connected to the ethernet cable, configure your PSE accordingly. Consult your IT department for PSE configuration details.





# 6 Turn on the device and check for power connection

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.



# 7 Choose your connectivity option

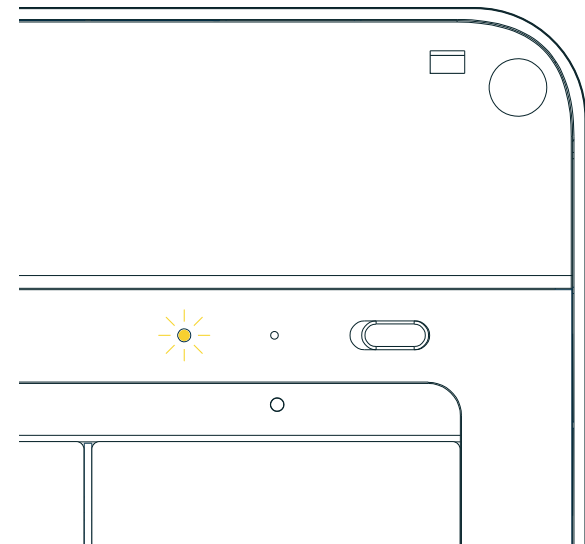
The Sensedge Mini supports Wi-Fi, ethernet, and Modbus via RS-485 for connectivity. Choose the connectivity option best suited for your project and follow the instructions accordingly.

## A. Set up Wi-Fi

### Prepare for Configuration

Download the [Kaiterra Configuration Tool](#) and install it on your computer.

After the device has been turned on, it will automatically enter the configuration mode for 15 minutes. The STATUS light will flash in yellow. If your device isn't in configuration mode, please turn off the device and turn it back on again.



## Connect to Wi-Fi

Open network settings on your computer and look for the Wi-Fi network that starts with “Kaiterra”. Connect your computer to that network.

On the Configuration Tool, you can enter a name for the device (e.g. the location of the device or the serial number) and a project tag. This will provide easy identification and filtering in the configuration history page later on to help you quickly connect the device to the Kaiterra dashboard.

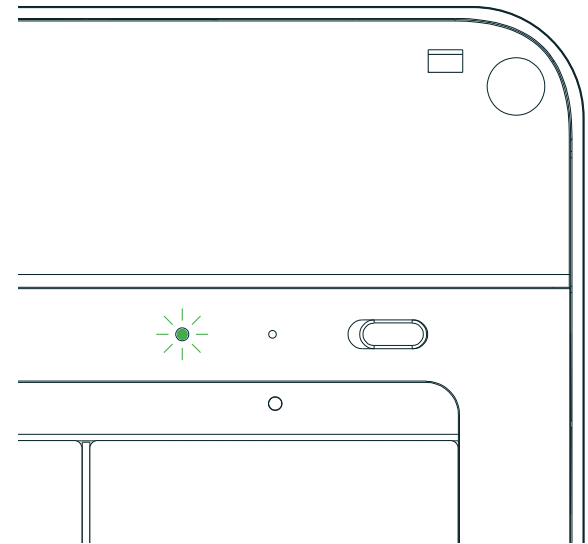
Enter the Wi-Fi details to the applicable fields on the Configuration Tool, including:

- SSID
- Security type
- Password
- IP (manual mode only)
- Subnet mask (manual mode only)
- Gateway (manual mode only)

Click save and disconnect your computer from the “Kaiterra” network.

## Check for Connectivity

The STATUS light will flash in green during the pairing process, and eventually go off when the connection is successfully completed.

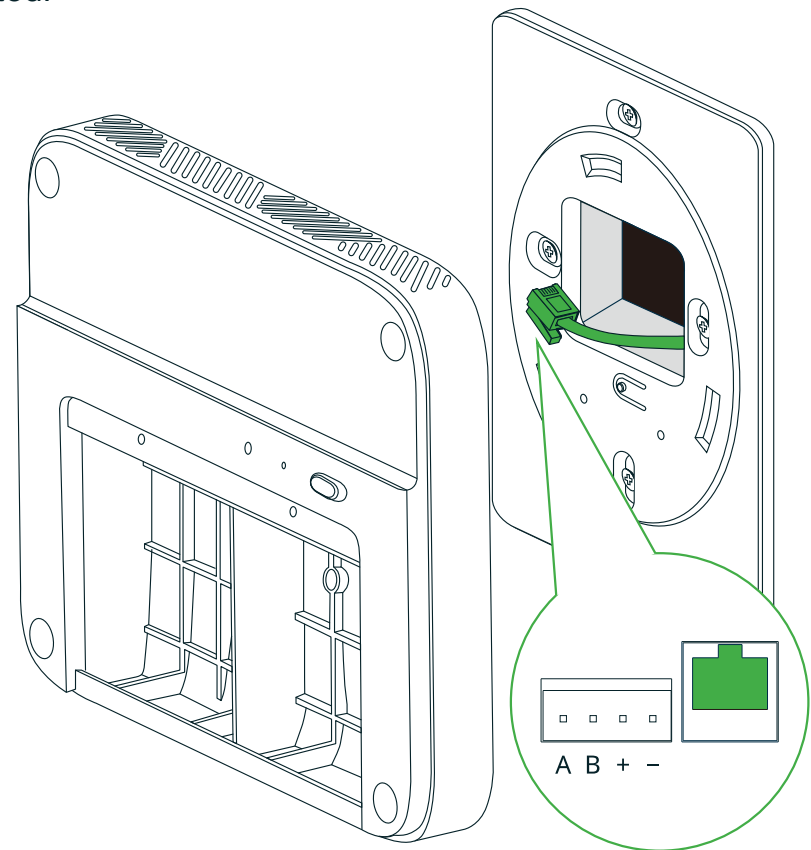


## B. Set up ethernet

Run your Ethernet cable through the opening on the plate, and into the Ethernet port on the back side of the device. You should hear a click sound and see a green light on the cable port.

If DHCP mode is used, your connection should be completed.

If Manual Mode is used, please read on.



## **Manual Mode - Prepare for Configuration**

If you choose to set up manual mode, please download the Kaiterra Configuration Tool and install it on your computer.

After the device has been turned on, it will automatically enter the configuration mode for 15 minutes. The STATUS light will flash in yellow. If your device isn't in configuration mode, please turn off the device and turn it back on again.

## **Manual Mode - Connect to network**

Open network settings on your computer and look for the Wi-Fi network that starts with "Kaiterra". Connect your computer to that network.

On the Configuration Tool, you can enter a name for the device (e.g. the location of the device or the serial number) and a project tag. This will provide easy identification and filtering in the configuration history page later on to help you quickly connect the device to the Kaiterra dashboard.

Enter the network details to the applicable fields on the Configuration Tool, including:

- IP
- Subnet mask
- Gateway

Click save and disconnect your computer from the “Kaiterra” network.

### **Check for Connectivity**

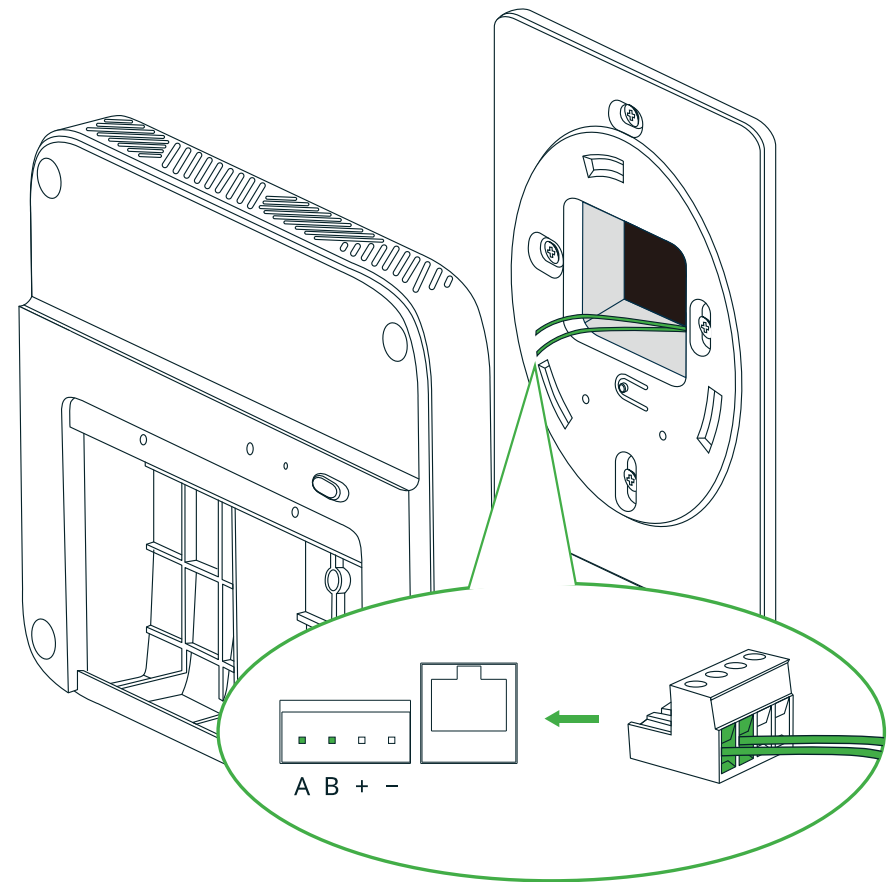
The STATUS light will flash in green during the pairing process, and eventually go off when the connection is successfully completed.

## C. Set up Modbus via RS-485

To set up Modbus communication, connect your cable from the RS-485 network to a 4-pin Phoenix pin plug. Check the “A” “B” marks on the back of the device to make sure the cables are connected in the right order, and fasten the screws on the Phoenix pin plug to secure the cables.

Run the cables through the opening on the plate, and plug the 4-pin Phoenix pin plug into the corresponding terminals on the back of the device.

The default Modbus address is set as 1, and can be changed later via the Kaiterra Configuration Tool.





## **Configure Modbus Settings - Prepare for Configuration**

Download the Kaiterra Configuration Tool and install it on your computer.

After the device has been turned on, it will automatically enter the configuration mode for 15 minutes. The STATUS light will flash in yellow. If your device isn't in configuration mode, please turn off the device and turn it back on again.

## **Configure Modbus Settings - Connect to network**

Open network settings on your computer and look for the Wi-Fi network that starts with "Kaiterra". Connect your computer to that network.

On the Configuration Tool, you can enter a name for the device (e.g. the location of the device or the serial number) and a project tag. This will provide easy identification and filtering in the configuration history page later on to help you quickly connect the device to the Kaiterra dashboard.

Enter the Modbus settings details to the applicable fields on the Configuration Tool, including your Modbus address (enter a number between 1 and 247), AQI standards, and pollutants to include in your AQI calculation.

Please consult the facility manager or other responsible personnel if the Modbus address is not clear.

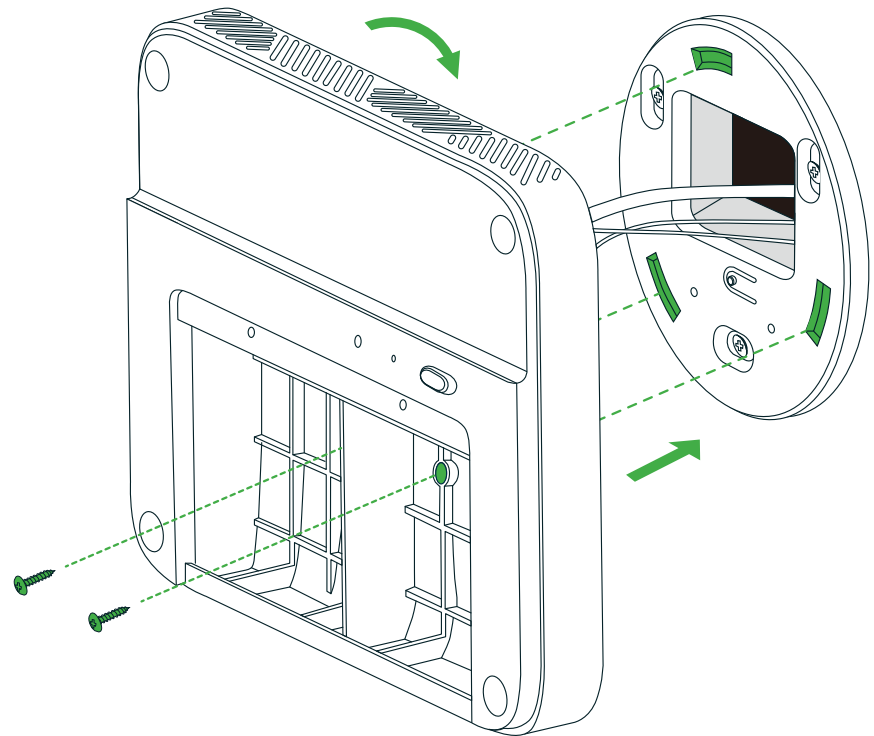
Click save and disconnect your computer from the "Kaiterra" network.

# 8 Secure the device in place

You will find three slots on the plate and three corresponding protrusions on the back of the device. Line the device up with the plate such that the protrusions are inside the corresponding slots. Rotate gently to secure the device and lock it in place, and use the two fastening screws to fasten the device to the plate.



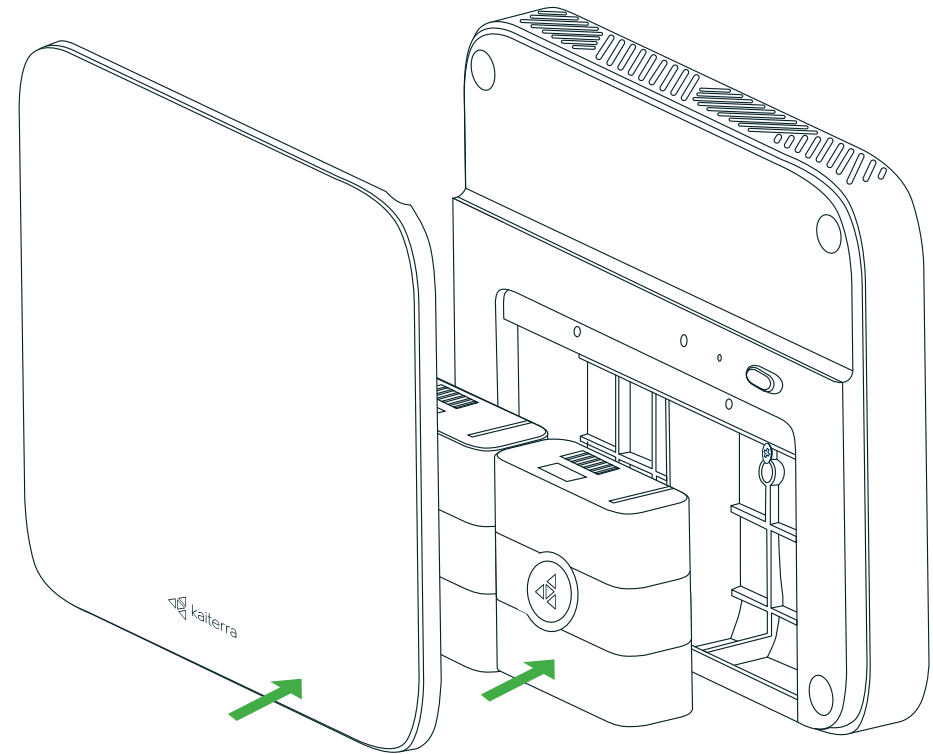
Fastening screws x 2



# 9 Install the modules

To install the sensor module, simply align it with the bay and press it in, ensuring the Kaiterra 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.

Sensor modules may be inserted in either sensor bay, and in any order. After successfully installing the modules, put the front cover on.



# 10 Complete Electrical Box Mount Installation!

You have completed the installation process. Now follow our [Dashboard Setup Guide](#) to set up your Kaiterra dashboard account and connect your device to the dashboard.



For additional support,  
please contact your sales representative or contact us at the following email address:  
[support@kaiterra.com](mailto:support@kaiterra.com)