kaiterra

Sensedge Go

for Outdoors
Installation Guide

Important safeguards

Please read the safety warnings before use and take the necessary precautions to reduce the risk of fire, electric shock, or injury. The Kaiterra limited warranty applies only if the unit is used according to these instructions.

Warning ⚠️

- This outdoor housing is exclusively designed for use with the Kaiterra Sensedge Go.
- Use the recommended outdoor power source as advised by Kaiterra or your Kaiterra-approved supplier.

1. What you will need

You will need two packages for installing the Sensedge Go with the outdoor housing: the original Sensedge Go package and the outdoor housing accessory package.

The following is a list of the parts included in each package that you will need.

Sensedge Go Package - Parts

In the package	Sensedge Go	Sensedge Go sensor module x 1 (in the device)	3.6V Li-ion batteries x 6 (in the device)	Certificate of calibration and testing

Gateway — This product requires a Kaiterra Gateway for operation, which is not included. Please ensure you have one available prior to initiating the installation process.

Outdoor Housing Accessory Package - Parts

Backplate

Outdoor housing

Stainless steel bracket

Fastening screws x 2

M4 screws and anchors (2 pairs)

Cable clips x 2

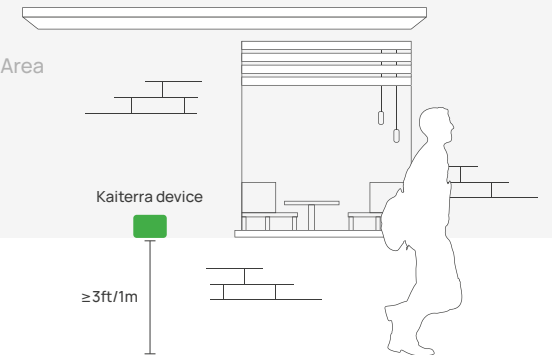# You Will Also Need (Not provided):

Cross screwdriver

Power drill

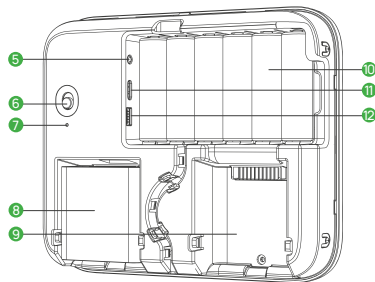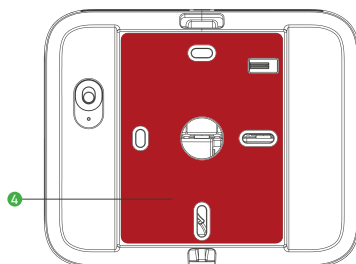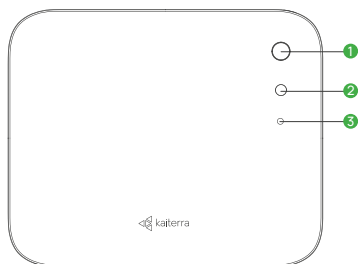## 2. Where to place your Sensedge Go for Outdoors ?

- Install in a covered area away from direct sunlight. Prolonged exposure to direct sunlight may reduce its overall lifespan. Choose a location with adequate shade to shield the device from the sun.
- Install the device vertically upright with the opening facing downward to prevent rainwater from entering the housing. Do not angle the housing, as it may reduce its coverage ability.
- Install your device at least 3ft (1m) above ground level to prevent water from splashing into the device.
- Please make sure that your desired mounting location is close to a power source, if using USB-C for power.
- Ensure that the power supply will not be submerged in water.
- To ensure optimal performance, keep the installation site and opening free from debris, insects, or spider webs that may accumulate at the bottom of the unit and obstruct the airflow.
- Please make sure your desired mounting location is within the range of the gateway as the device relies on the gateway for data transmission.

Installation Area

Kaiterra device

≥3ft/1m

3. Getting ready for installation

Know Your Device

1. PIR sensor
2. Light sensor
3. LED
4. Double-sided tape
5. External antenna port
6. Power button
7. Reset button
8. Module bays
9. Module bays
10. Batteries
11. USB-C 5V/0.5A
12. External antenna connection point

The Sensedge Go draws air in from the lower side and releases it from the upper side. It is essential to keep both sides unobstructed, as any disruption to the airflow can impact the device's readings and accuracy.
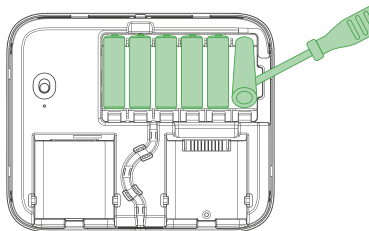
Power Options

The Sensedge Go provides 2 power options:
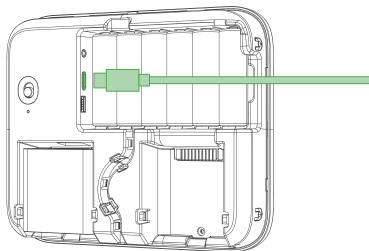
3.6 V AA Li-SOCl2 batteries

The Sensedge Go is designed to operate with 1 to 6 batteries, allowing flexibility in power configurations. Always use 3.6V AA Li-SOCl$_2$ batteries for optimal performance. **Do not use rechargeable batteries**, as they may damage the device.

To remove the batteries, use a flat-head screwdriver to gently push the far-right battery out of its compartment. When installing new batteries, ensure proper placement: insert each battery with the positive terminal (+) aligned with the top contact and the negative terminal (-) aligned with the bottom contact, following the orientation guide inside the compartment.
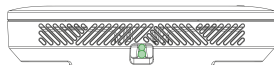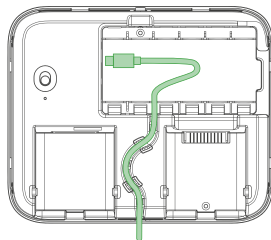

USB-C (USB-C power cable not included)

The Sensedge Go is equipped with a 5V/0.5A USB-C port, located on the left side of the battery bay. This port provides a reliable and convenient option for powering the device in addition to battery operation. Ensure compatibility with the specified power output for optimal performance.

The Sensedge Go offers flexible routing options for the USB-C cable, allowing it to exit from the top, bottom, or rear of the device (through an opening in the drywall or an electrical box). All exit points are equipped with built-in cable strain reliefs to secure the cable in place, preventing overpulling and reducing the risk of damage.

To ensure proper installation, make sure the cable is securely fitted into the designated cable slot. The bottom exit can accommodate up to 2 cables: 1 x 3mm and 1 x 4mm cables. The top exit can accommodate multiple cables.
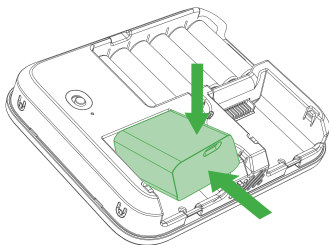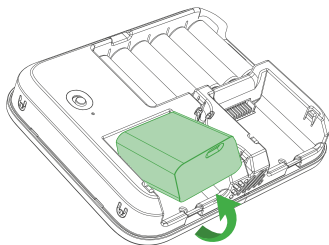

The bottom exit

Sensor Modules

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

To insert a sensor module, align it head-first with the bay, press it in, and ensure it clicks into place securely. To remove a sensor module, lift the module from the bottom up.

Insert

Remove

Control and Status

Move the ON/OFF switch up to turn on the device. After several seconds, the STATUS light will light up blue to indicate the device has been powered on.

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

How to factory reset

To clear all settings and put the Sensedge Go back into its factory state:

1. Locate the reset hole on the back of the Sensedge Go, below the power switch.
2. Turn on the device and wait for it to boot up fully, confirmed when the blue LED light turns off.
3. Insert a pin or similar object into the reset hole.
4. Press and hold the Reset button inside the hole for about 10 seconds.
5. Release the button when the LED begins blinking rapidly in blue, indicating the device has been reset to factory settings.

Device status light indications

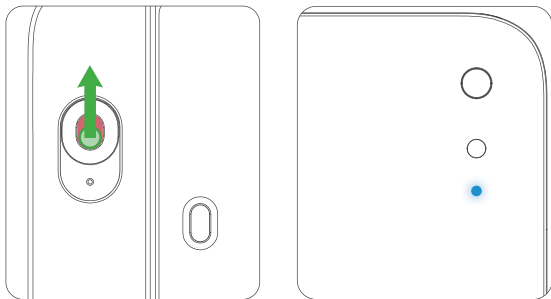| Device State	LED Behaviour
Booting up	Solid blue for 4 seconds
Waiting for configuration	Pulse orange every 1 second
Searching for / connecting to gateway	Pulse orange every 3 seconds
Connected to gateway	Solid blue for 4 seconds
Factory-reset countdown	Blink blue for the final 10 seconds of the countdown
Factory-reset confirmed	Fast blink orange

4. Installing the Sensedge Go
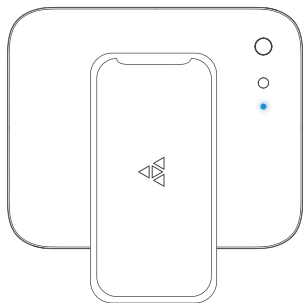
1 Set up a gateway

a. Attach the gateway antenna.
b. Connect gateway to Ethernet, unless this installation will be using the included SIM card (fees apply).
c. Connect gateway to power.
d. Wait 4 minutes. Removing power before the gateway is fully booted up can lead to errors or failure.

2 Setting up a Sensedge Go

a. Turn on the Sensedge Go by sliding the switch on the back of the device upwards (batteries are pre-installed in the device by default)

b. Check the front panel to confirm the power connection; the status LED will illuminate blue for a few seconds, followed by blinking orange.
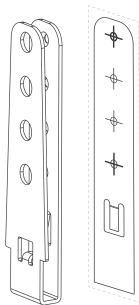
c. Download the "Kaiterra Installation" app on a mobile device. Make sure you have an organization account set up prior to installation. If you don't have an account or need help, please contact your Customer Success Manager at Kaiterra, or email us at support@kaiterra.com.

d. Log into the Kaiterra Installation app with your account, and follow the on-screen instructions to set up your device.
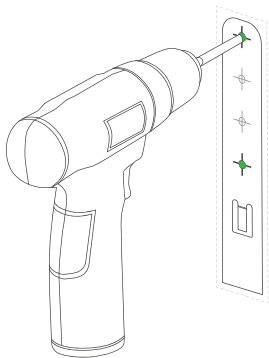

❸ Prepare with the Wall Bracket

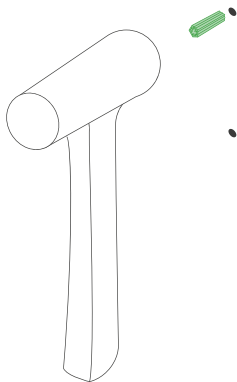Find the bracket included in the packaging. Adhere the drill-assist sticker at the desired location for installation.

④ Drill holes for anchors

Use your power drill and 6mm drill bit to create two holes at the marked screw hole locations.
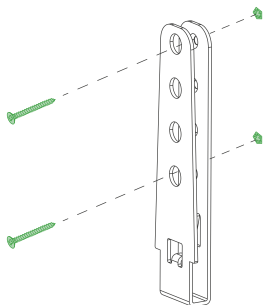
⑤ Placing anchors in the wall

Hammer the anchors into the holes with your mallet.

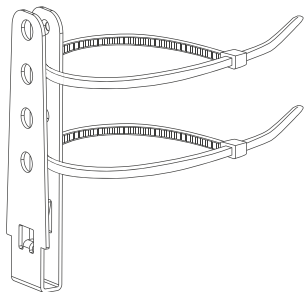## ❻ Mount Wall Bracket to the wall

Line up the bracket (large holes facing front) with the Anchors and mount it to the wall using the provided M4 Screws.

Optional:

Use cable ties to secure the housing. It is important to install the device vertically upright with the opening facing downward to prevent rainwater from entering the housing. Do not angle the housing, as it may reduce its coverage ability.
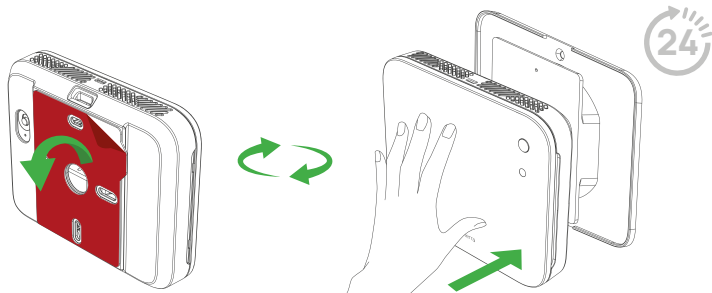(Cable ties not included)

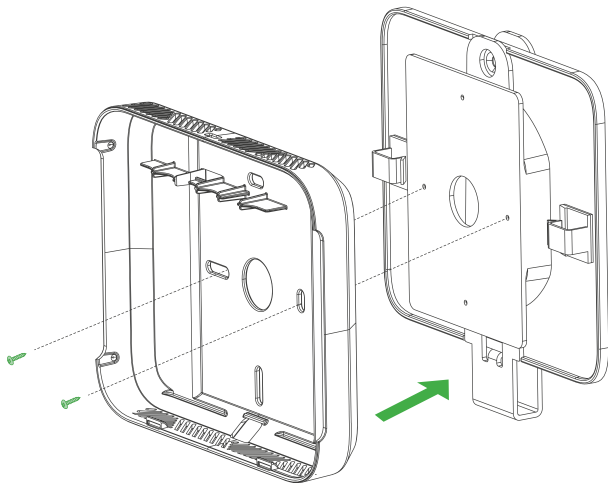# ❼ Attach the backplate onto the device

Adhere device to the backplate (using double-sided tape)

Peel off the liner from the double-sided tape and firmly press the device onto the backplate. Apply pressure during installation to ensure optimal adhesive contact. Allow the adhesive to set by leaving it undisturbed for 24 hours.
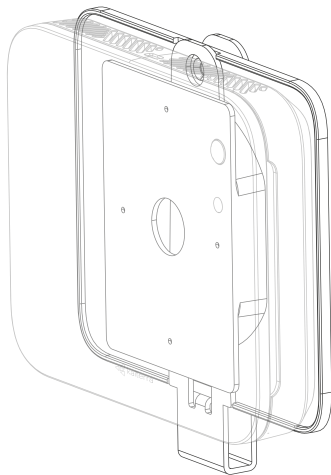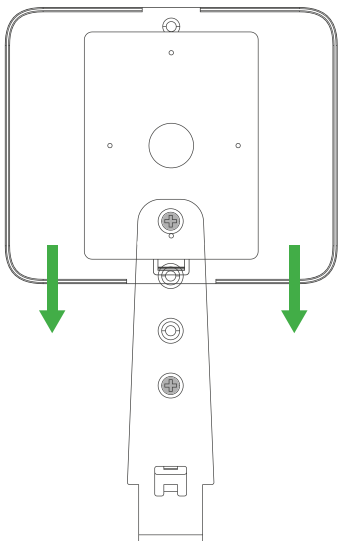
Optional:

Use the two fastening screws to secure the device to the plate. Make sure each screw is fully tightened and sits flush against the surface to prevent any interference with the device's back cover.
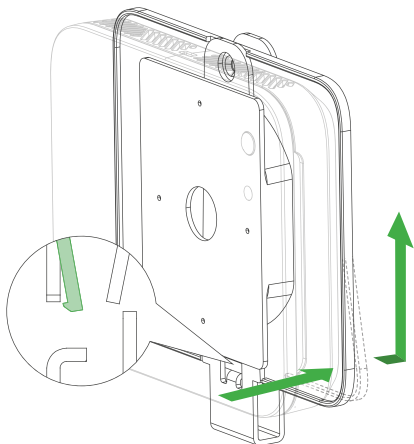
8 Secure the device in place

Slide the backplate over the bracket, making sure that the bracket is properly inserted into the correct slots. Once the backplate is securely latched onto the bracket, you will hear a distinct 'click' sound.
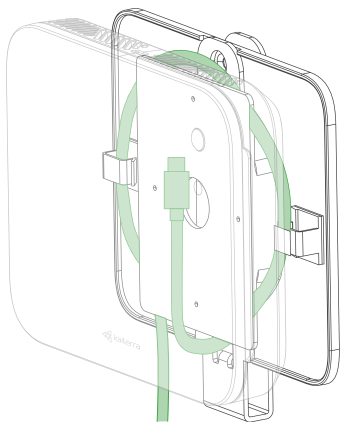
To remove the backplate

To remove the backplate from the bracket, press down on its bottom corners to release it from the latch, and then lift and remove it.
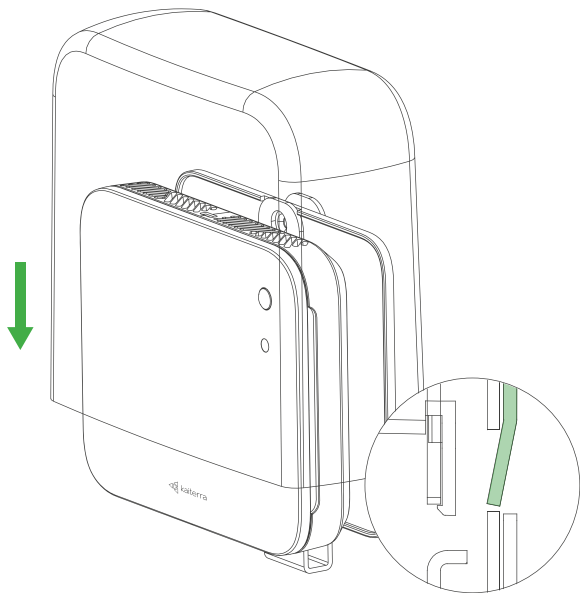
9 Secure the power cable if using a USB-C cable

Wrap the power cable around the backplate. Use the clips to fix the cables in place to prevent any accidental tugging or pulling that could cause damage to the USB-C.
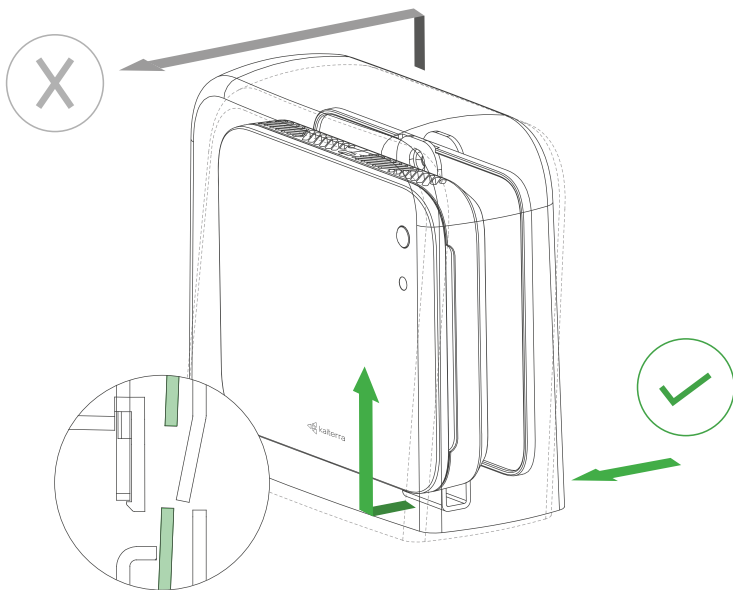
⑩ Attach the outdoor housing

Make sure the device is fully covered, with only the bracket visible. Make sure the housing is properly locked into position.

To remove the outdoor cover

To remove the housing, start by pulling the back of the housing forward to unlatch it from the bracket, and then lift it up.

Avoid pulling the housing forward from the top directly, as this may cause deformation to the bracket.

⑪ Installation completed!

You have completed the installation process.

For additional support, please contact us at support@kaiterra.com