Installation Guide

Package Contents
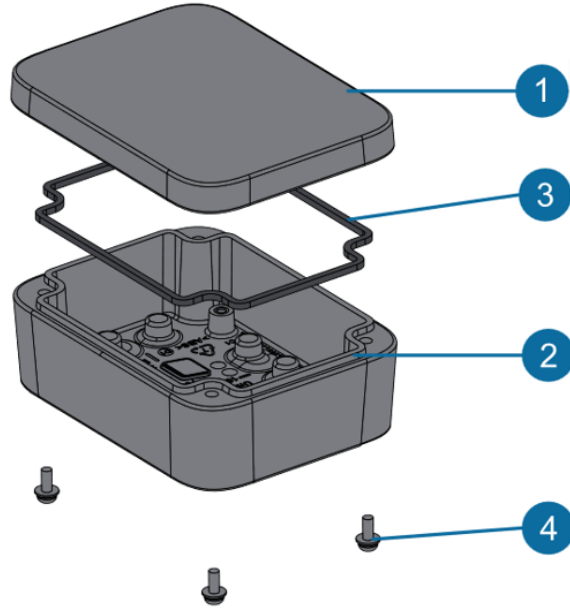

Figure 1: Small WisBlock Unify Enclosure package content

Number	Name	Quantity	Material	Color
1	Top Cover	1	ABS UL94V-0	White or Grey
2	Bottom Base	1	ABS UL94V-0	White or Grey
3	Gasket	1	Silicone	Black
4	Screw	4-6	Stainless steel	

Assembly Guide

1. Prepare the Lid and Gasket

First, install the rubber gasket in the groove of the top cover, as shown in **Figure 2**. Put the four corners of the gasket into the groove, and then press the middle gently. Ensure that the gasket is not twisted.

Before assembly, check if the gasket is installed correctly. The rubber gasket helps seal the enclosure properly and protects it from dust and water.
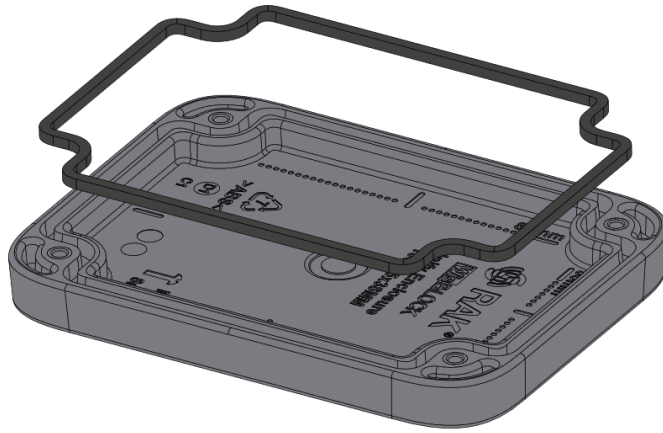
Figure 2: Installing the rubber gasket

2. Choose the Internal Mounting Plate

Next is to prepare the mounting plate. There are two types of mounting plates:

- Plain mounting plate
- WisBlock bespoke mounting plate

Plain Mounting Plate

The plain mounting plate has no holes, except on mounting holes to the enclosure. It is designed to be customized depending on the circuit board to be placed in the enclosure.
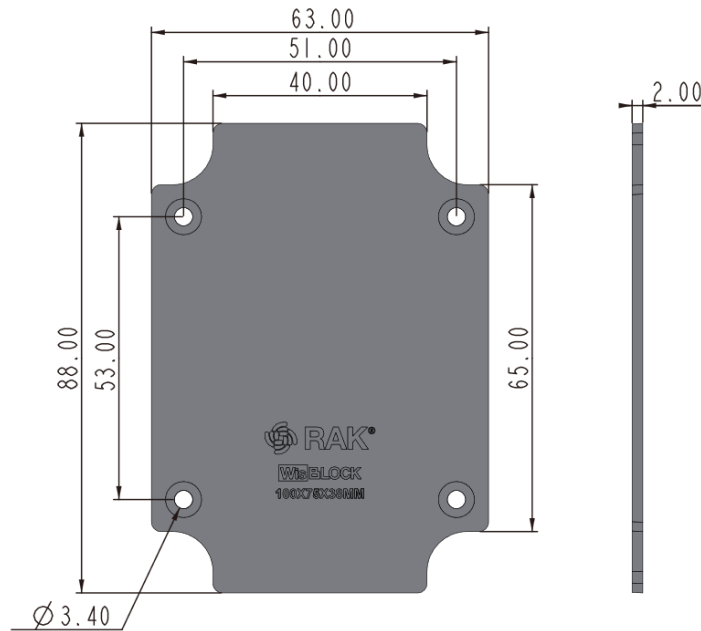

Figure 3: Plain mounting plate

WisBlock Bespoke Mounting Plate

The WisBlock Bespoke Mounting Plate is designed specifically to hold WisBlock Base boards. You have to cut the excess bosses or parts with a wire cutter depending on the WisBlock Base board that you have.

The following guide shows what to cut depending on the WisBlock Base board.

> 📝 **NOTE**
>
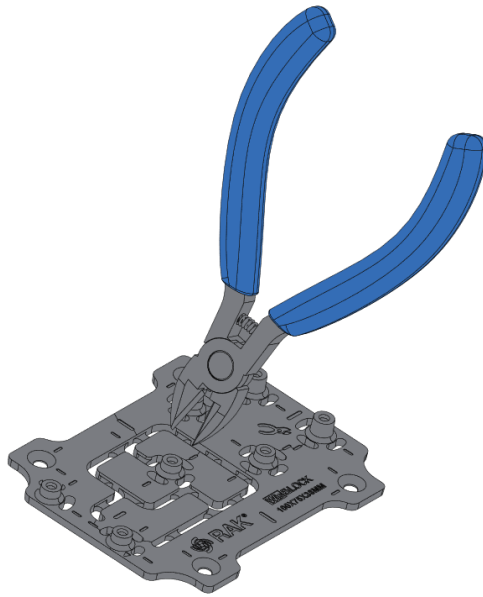> For the cutting reference, the red line is the cut-out area.

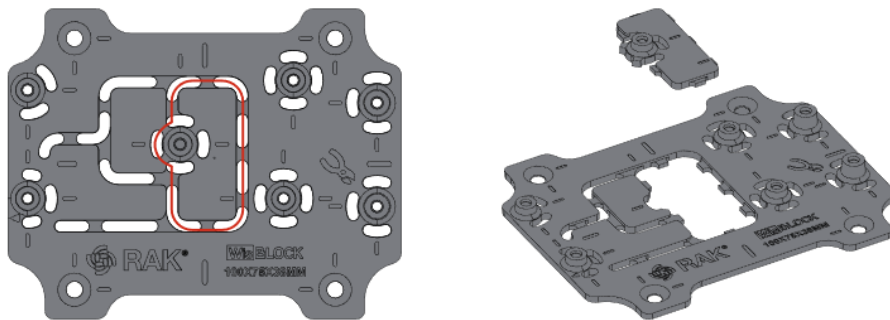**Figure 4:** Cutting-out excess parts of the WisBlock Internal mounting plate

RAK5005-O

Figure 5: RAK5005-O WisBlock Base board cut-out area
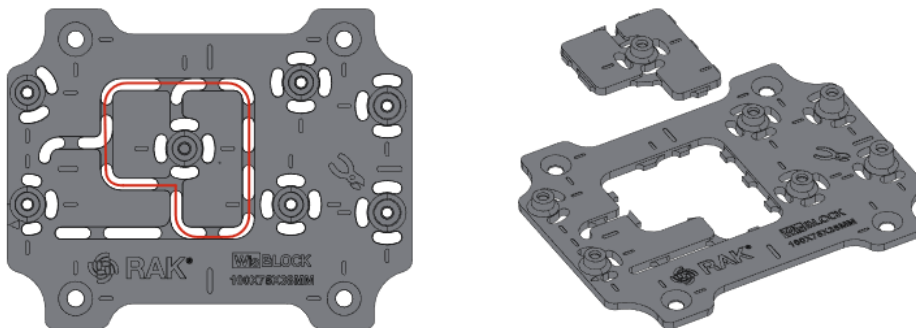
RAK19007

Figure 6: RAK19007 WisBlock Base board cut-out area
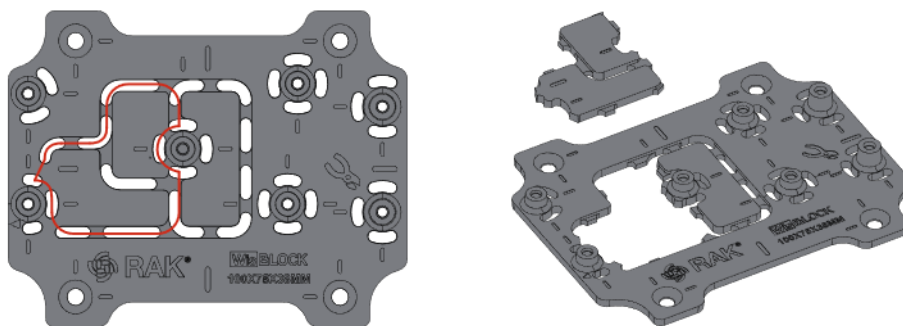
RAK19003

Figure 7: RAK19003 WisBlock Base board cut-out area

3. Screw the WisBlock to Internal Mounting Plate

After cutting the Internal Mounting Plate, install the WisBlock Base board onto the Internal Mounting Plate with 2.2*5 mm self-tapping screws, as shown in **Figure 8**.
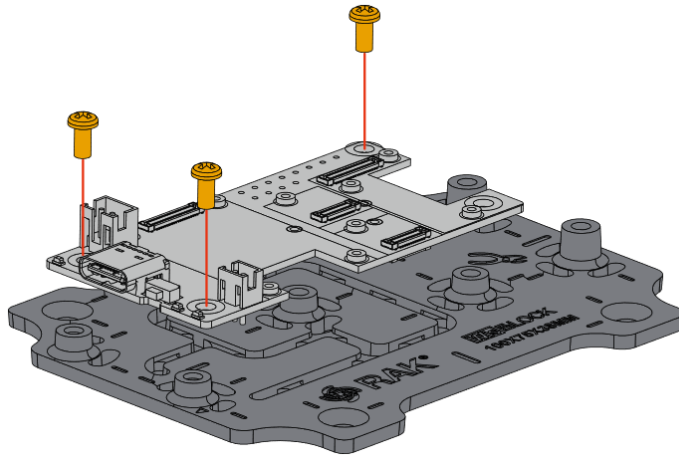

Figure 8: Installing WisBlock Base board on internal mounting plate

4. Attach the Mounting Plate to the Enclosure

Then install the WisBlock Internal Mounting Plate to the base of the enclosure using four (4) pieces of M3*4 mm Countersunk head screws, as shown in **Figure 9**.
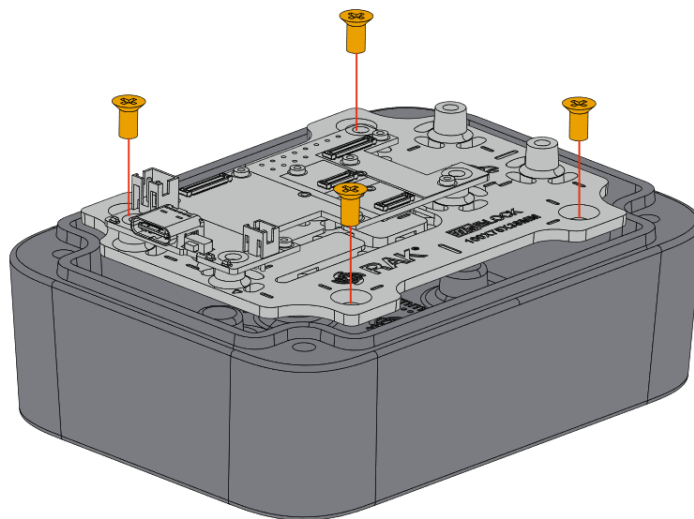

Figure 9: Installing Internal Mounting Plate to the enclosure

5. Cover the Enclosure with Lid

Finally, close the WisBlock Unify Enclosure with the top lid using four pieces of M3*8 mm head screw with a washer, as shown in **Figure 10**.
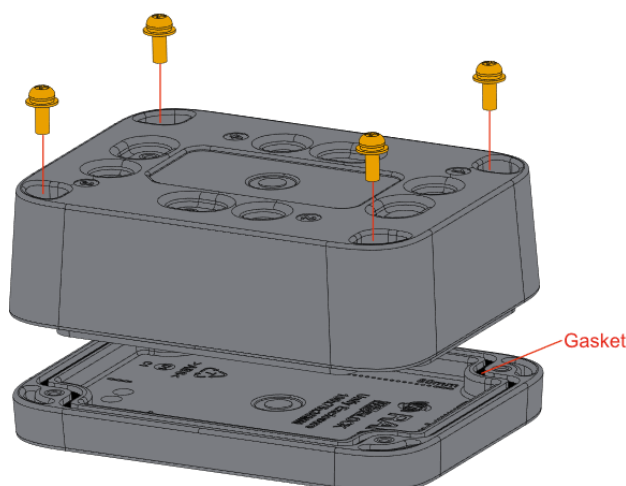

Figure 10: Closing the WisBlock Unify Enclosure

Mounting Guide

After full assembly of the enclosure, the next step is to choose the right mounting accessory for your application:

- Pole Mount
- Wall Mount

Each mount accessory has a mark indicated by a capital letter, as shown in **Figure 11**, and each WisBlock Unify Enclosure has several fixed positions, which are indicated by a mark of numerals, as shown in **Figure 12**. The small-sized WisBlock Unify Enclosure has only four (4) fixed positions.
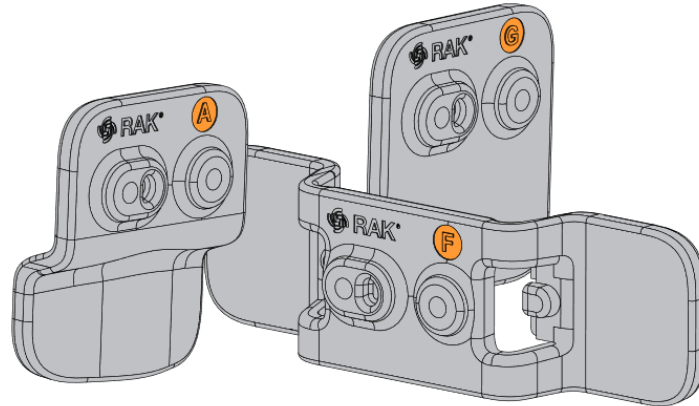

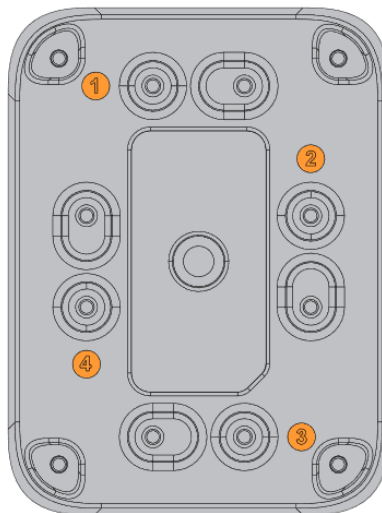**Figure 11:** Mount accessories marked with letters

Figure 12: WisBlock Unify Enclosure marked with numerals

Pole Mounting

Pole Mount Vertical (Mark A)

1. For vertical pole mount, use two (2) pieces of mount accessories, which has an indicated mark of the letter **A**, as shown in **Figure 13**.
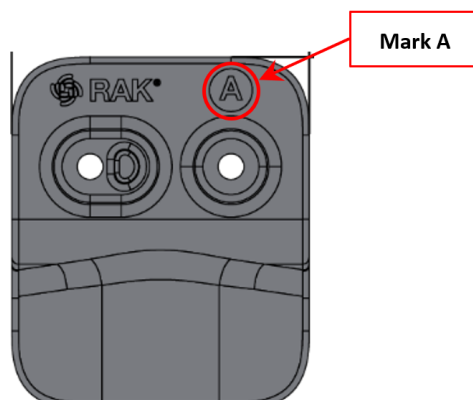

Figure 13: Mount accessory marked with letter A

2. Fix the pole mounts marked with the letter **A** on the WisBlock Unify Enclosure using four (4) pieces of M3*8 mm Head screw with washer. Place it on fixed positions number **1 and 3** of the enclosure, as shown in **Figure 14**.
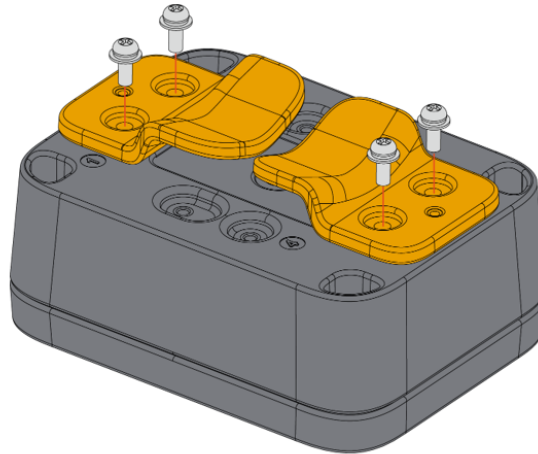

Figure 14: Fixing the pole mount on the enclosure

Size	Fix Position
Small	1 & 3

3. After fixing the mounts on the enclosure, place the WisBlock Unify Enclosure onto the pole by using two (2) steel strips (60-85 mm), as shown in **Figure 15**.

> 📝 **NOTE**
>
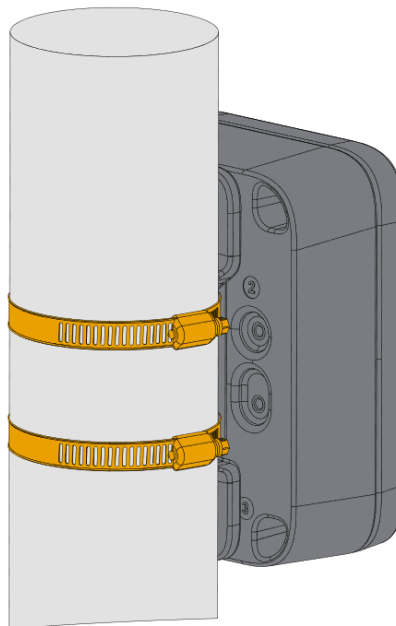> The steel strips **ONLY** support the 60-85 mm diameter of the pole.

Figure 15: Fixing the enclosure on the pole

Wall Mounting

Wall Mount (Mark D)

1. For wall mount, use two (2) pieces of mount accessories with an indicator marked with the letter **D**, as shown in **Figure 16**.
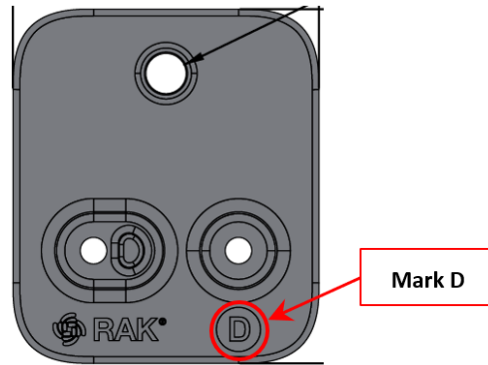
Figure 16: Mount accessory marked with letter D

2. Fix the wall mounts marked with the letter **D** on the WisBlock Unify Enclosure using four (4) pieces of M3*8 mm head screw with a washer. Place it on fix positions number **1 and 3** or **2 and 4** of the enclosure, as shown in **Figure 17**.
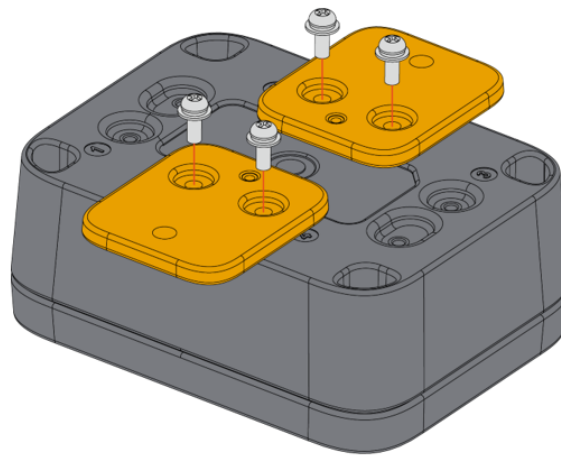

Figure 17: Fixing the wall mount on the enclosure

Size	Fix Position
Small	1 & 3 2 & 4

3. Lastly, follow the steps below, as also shown in **Figure 18**:

- **Step 1**: Use a Φ5 mm drill head to drill holes in the wall. Drill at least 55-60 mm in depth.
- **Step 2**: Plug the screw anchors onto the drilled holes. You can use a hammer to plug it in. It helps the screws to have a secure fit on the wall.
- **Step 3**: Fix the WisBlock Unify Enclosure on the wall using two (2) pieces of st3.5*35 mm tapping screws.
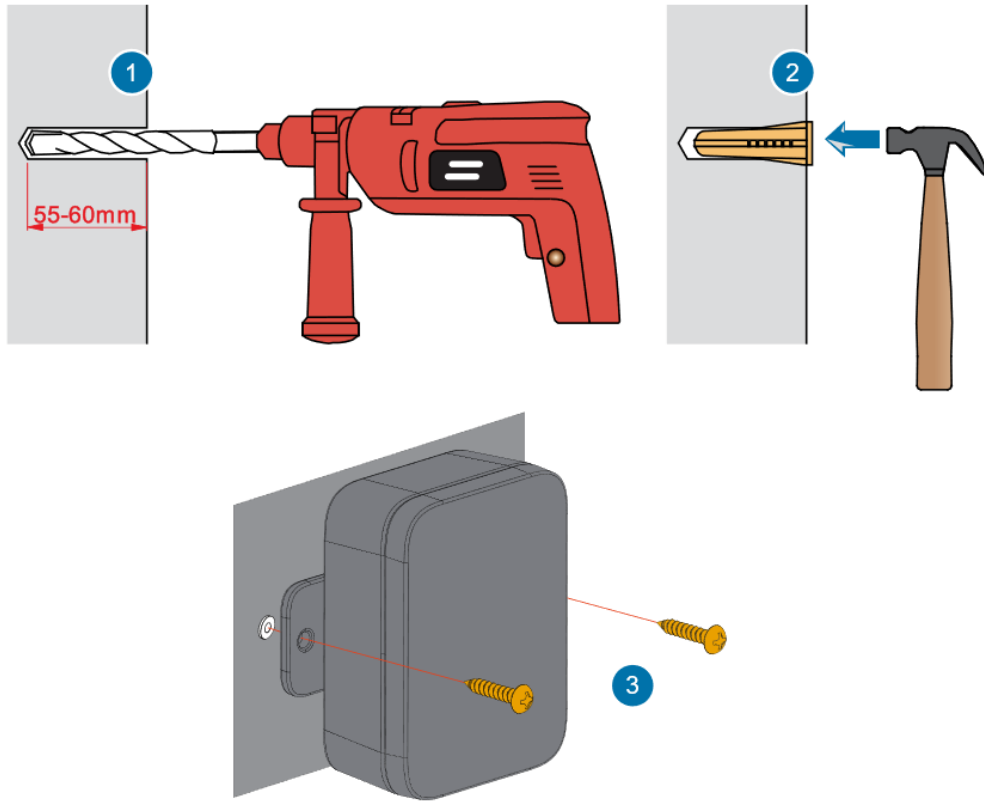
Figure 18: Fixing the enclosure on the wall

WisBlock Unify Outdoor Enclosure 100x75x38 Datasheet

Overview

Description

RAKBox-UO100x75x38 is a small-sized **WisBlock Unify Enclosure**. It is an IP65-rated protection class that allows the unit to be used outdoors while protecting the internal components from dust and water. It is also a weatherproof fire retardant enclosure made from ABS plastic specially designed for WisBlock Products.

Moreover, it supports different types of mounting options such as pole, wall, DIN rail, belt, and hook.

Features

- IP65-rated
- Dimensions L x W x H: 100 mm x 75 mm x 38 mm
- Available in two (2) colors: cool gray and white color
- Two base plate options: **Plain Base Plate** and **WisBlock Bespoke Base Plate**
- Support application of various scenarios via optional mounting accessories
- Allows **customization service** without MOQ and supports CNC machining, painting, label printing, etc.
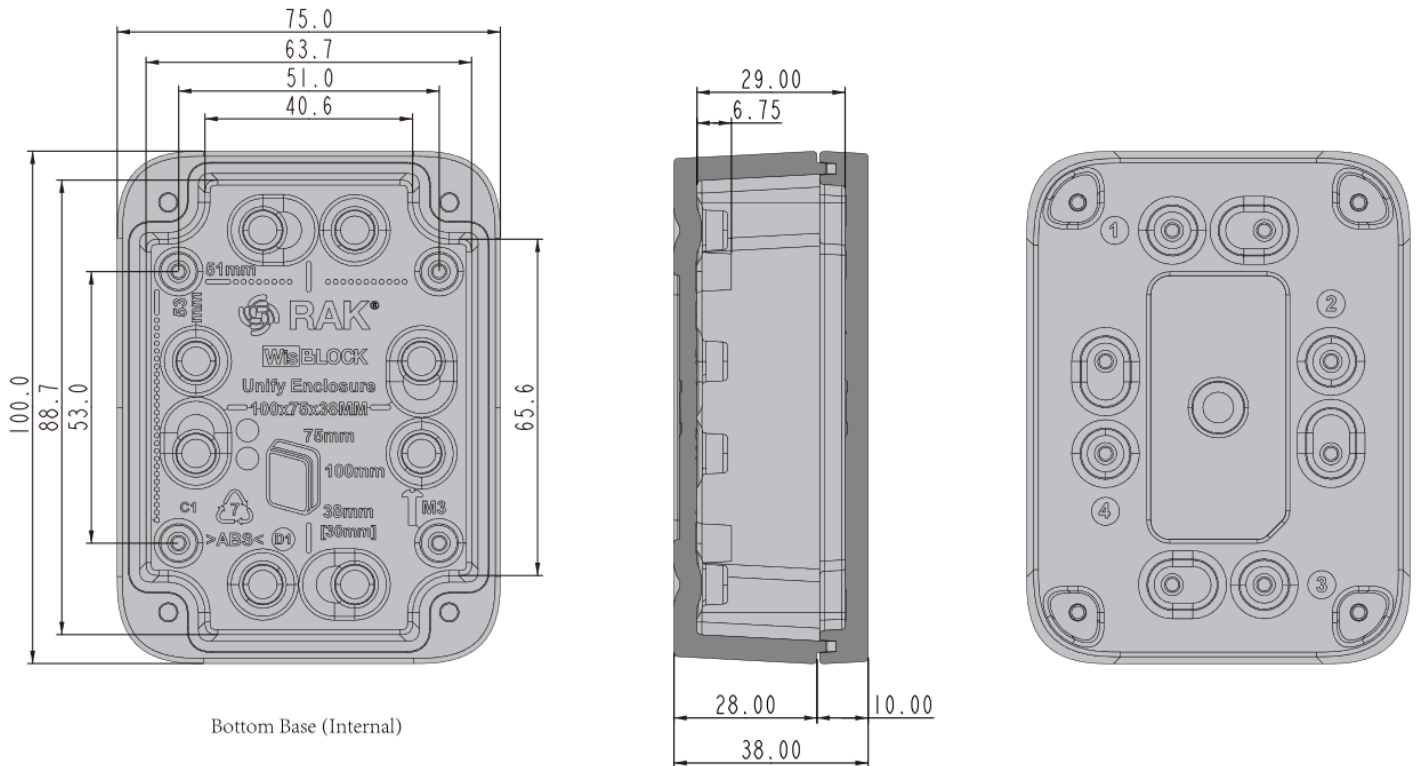
Enclosure Mechanical Dimensions

Figure 1: Small WisBlock Unify Enclosure dimensions

Enclosure with Mounting Accessory

These are the measurements when mounting is attached to the enclosure:

- WisBlock Unify Enclosure 100x75x38 + Pole Mount
- WisBlock Unify Enclosure 100x75x38 + Wall Mount

Vertical Pole Mount

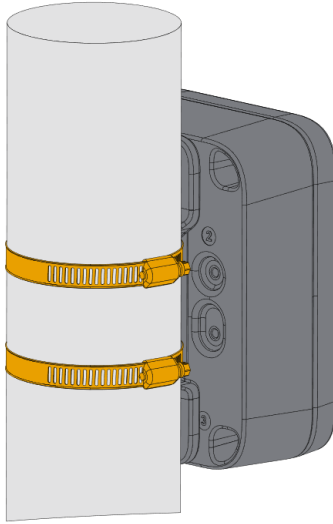The vertical pole mount guide can be found on the installation guide.
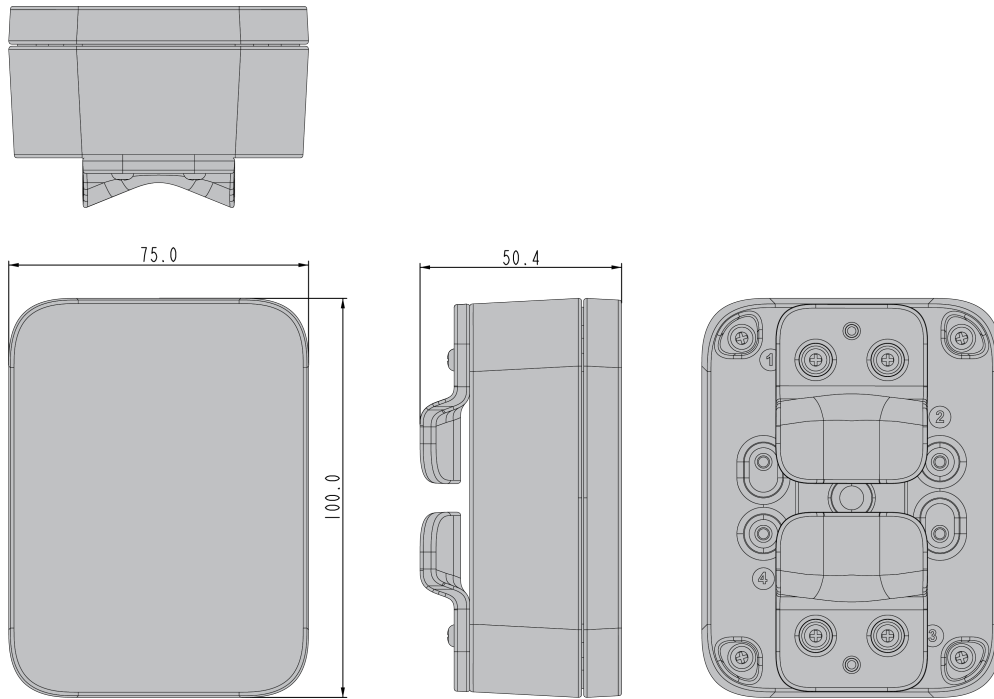

Figure 2: Vertical pole mount

Figure 3: Enclosure with pole mount

Wall Mount

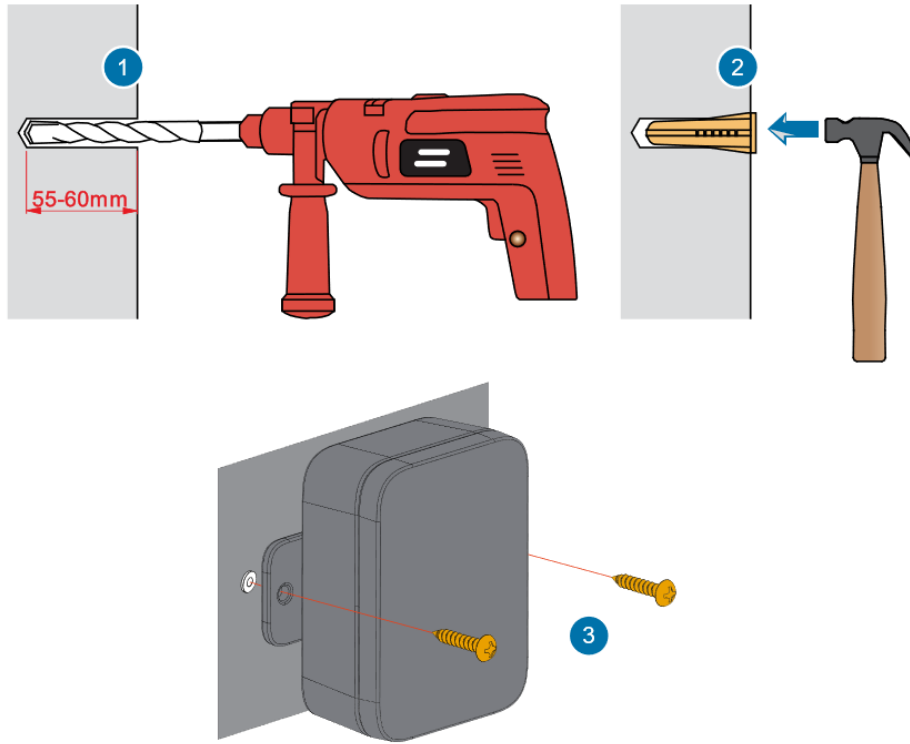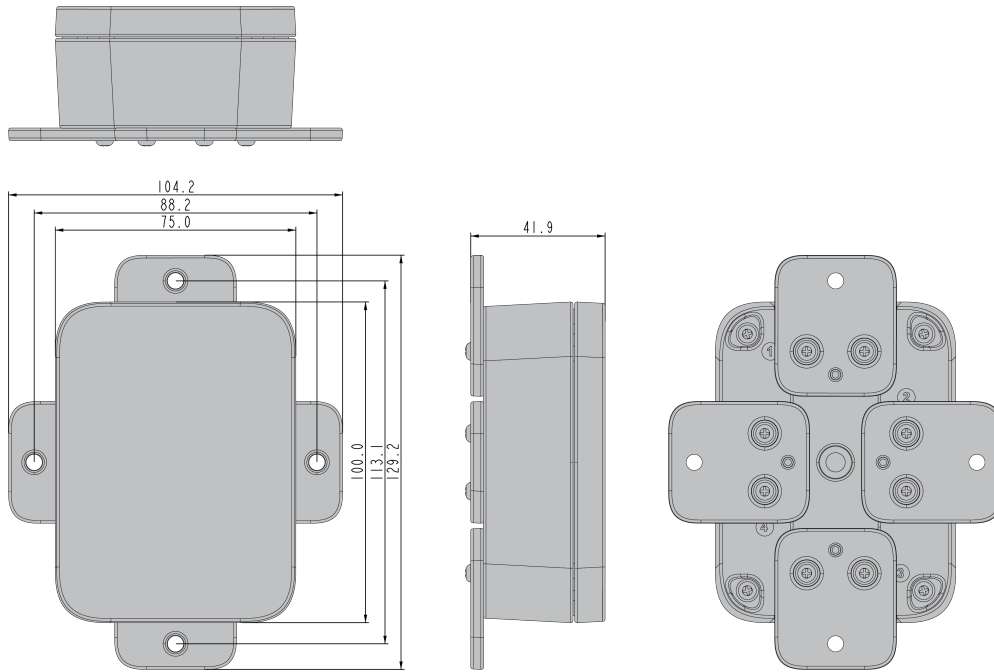The wall mount guide can be found on the installation guide.

Figure 4: Wall mount

Figure 5: Enclosure with wall mount