WisBlock RAKBox-B2 Enclosure Datasheet

RAKBox-B2 is an IP67 rated enclosure for outdoor usage. It is designed specifically for the WisBlock products.

Lightweight Plastic Design

- The enclosure is a small, lightweight, yet very rigid design.
- Perfect for setups where space is limited.
- It is rated I67/NEMA-6, so it is a weather proof.
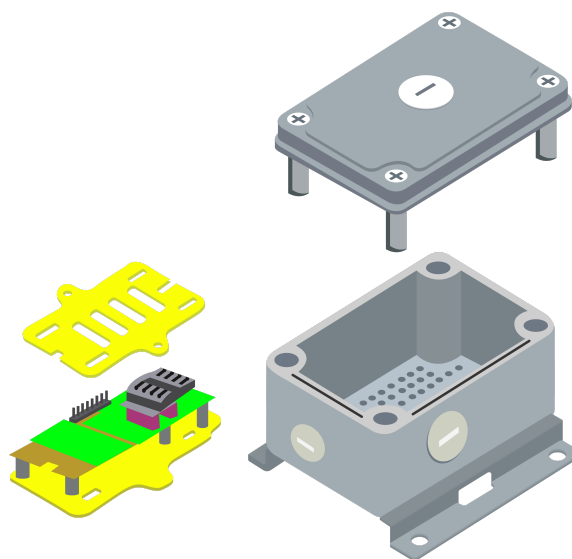- The enclosure has a top mounted solar panel for battery charging.

Figure 1: RAKBox-B2 Enclosure Overview

Mechanical Characteristics

- Dimensions W x L x H: 95mm x 65mm x 58mm
- Weight: approximately 7.45oz (211.2g)
- Material thickness: 3mm
- Pole and wall-mounting: 60~75mm pole diameter
- Logo customization possibility
- Optional openings for N-type antenna and external components with a gland
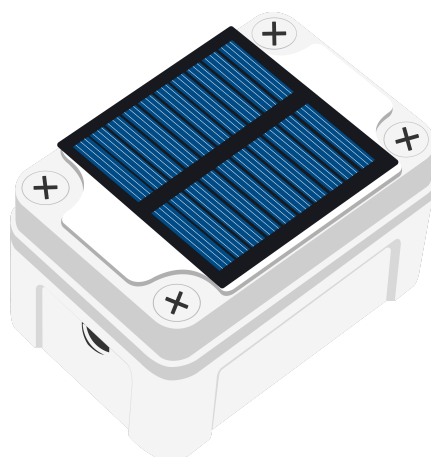

Figure 2: RAKbox B2 Enclosure

Solar Panel Characteristics

- The front side of enclosure with Solar Panel

- Dimensions: 60mm x 60mm x 2mm
- Voltage at nominal power: 5V (±10%)
- Current at nominal power: 80mA (±5%)
- Cell efficiency: 17.5%
- Work Environment:
  - Temperature: -20-65°C, Humidity: 45-95%, UV resistance
- The ZH1.5-2P connector, red cable is for positive pole, black cable is for negative pole
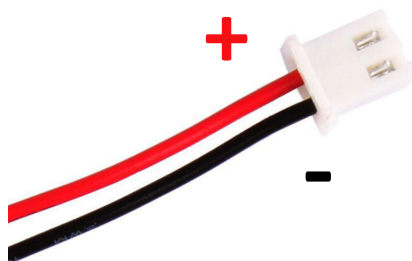

Figure 3: Solar Panel Connector

Ports

- 1x 16mm Ports supporting N-type connectors, Circular connector GX16
- 1x 12mm Ports supporting Vent valve, Circular connector GX12

WisBlock module support

The enclosure is compatible with the following WisBlock modules:

- WisBase Base RAK5005-O
- WisBase Core RAK4631
- WisBase Sensor RAK1901
- WisBase Sensor RAK1902
- WisBase Sensor RAK1904
- WisBase Sensor RAK1906
- WisBase Sensor RAK1910
- WisBase IO RAK5801
- WisBase IO RAK5802
- WisBase IO RAK5811
- WisBase IO RAK5804
- WisBase IO RAK2305
- WisBase IO RAK5860

Package Content

- Enclosure together with port plugs
- Mounting Kit

Mounting Kit

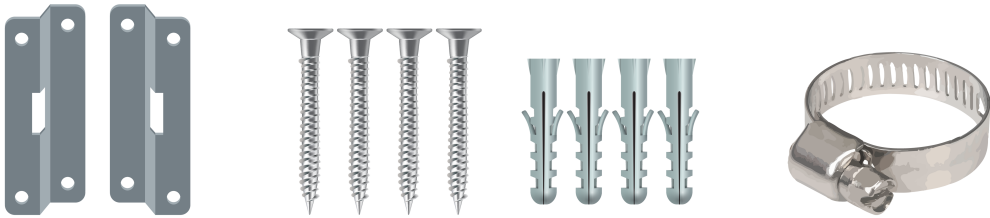A set of brackets for wall or pole mounting is included in the package.

Figure 4: Mounting Kit