

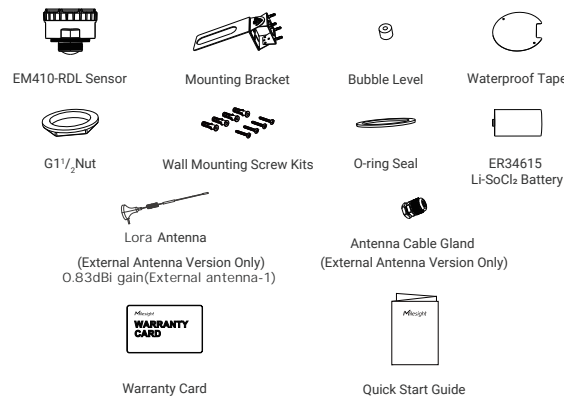
QUICK START GUIDE

RADAR DISTANCE/LEVEL SENSOR

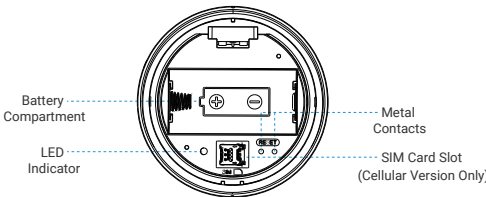
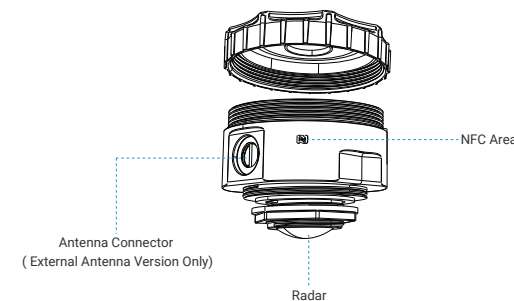


EM410-RDL-868M/915M

1. Packing List



2. Hardware Introduction

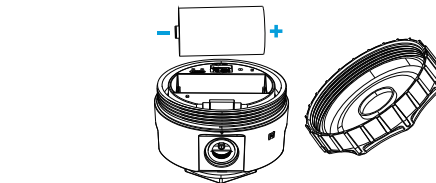


3. LED Indicator Descriptions

Function	Action	LED Indicator
Power On	Install the New Battery	Lights up for 3s
Power Off	Remove Battery	Turns off
Reboot	Create short circuit with the two metal contacts for over 3s	Blinks Slowly
Reset to Factory Default	Create short circuit with the two metal contacts for over 10s	Blinks Quickly
Check On/Off Status	Create short circuit with the two metal contacts within 3s	Light On: device is on Light Off: device is off

4. Accessories Installation

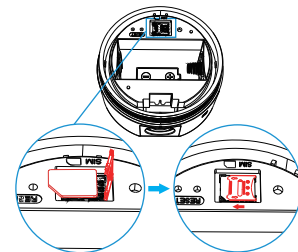
Battery Installation



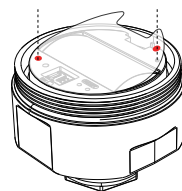
Note:

- The device can only be powered by ER34615 Li-SoCl₂ battery. The alkaline battery is not supported.
- The battery should be removed from the device if it is not used for an expended period.

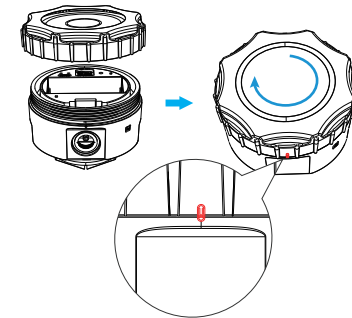
SIM Card Installation (Cellular Version Only)



Waterproof Cover Fixed

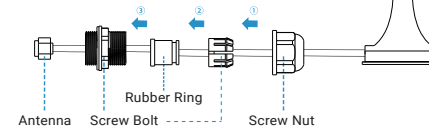


Paste Waterproof Tape

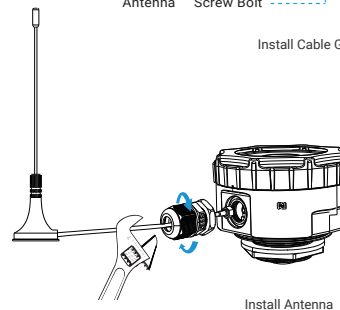


Tighten the Cover

Antenna Installation (External Antenna Version Only)



Install Cable Gland



Install Antenna



Quick Start Guide

All software & files can be downloaded from
<https://www.milesight.com/iot/resources/download-center/#documents>

Make Sensing Matter

Milesight IoT Co., Ltd. | www.milesight.com

Xiamen Milesight IoT Co., Ltd.
ADD: Building C09, Software Park Phase 111, Xiamen 361024, Fujian, China

5. Configuration

After the device is powered on, it can be configured via Bluetooth or NFC. Bluetooth is recommended for the first time installation.

1. Download and install "Milesight ToolBox" App on an NFC-supported or Bluetooth-supported smart phone.



Android

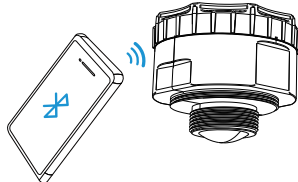


iOS

Bluetooth Configuration

2.Enable Bluetooth and location function on the smart phone.

3.Open "Milesight ToolBox" App, select Bluetooth method and search for the target device to connect, and then enter the Bluetooth password to read/write the device until App shows a successful prompt. It's suggested to configure a device password for security. (Default password: 123456)



NFC Configuration

2.Enable NFC function on the smart phone.

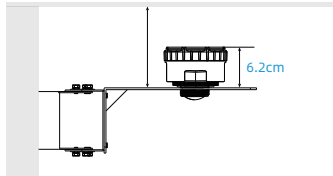
3. Open "Milesight ToolBox" App, attach the smartphone with NFC area to read/write the device until App shows a successful prompt. It's suggested to configure a device password for security. (Default password: 123456)

6. Installation

Mounting Bracket Installation

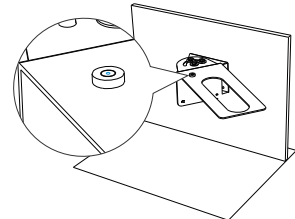
Step 1: Locate Position

- Avoid there are any metal objects, water outlet, stairs and other obstacles below;
- Please consider the height of the equipment and other factors (such as the thickness of the manhole cover) to ensure that the equipment does not affect normal use after installation.

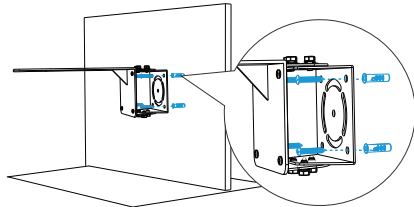


Step 2: Adjust Level

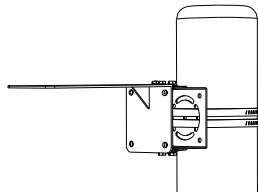
Attach the bubble level to the bracket surface to ensure the bracket is parallel.



Step 3: Fix Mounting Bracket

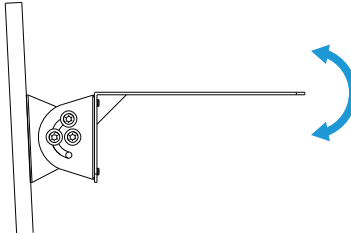


Wall Mount



Pole Mount

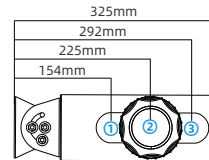
Note: If the wall is tilted, adjust the bracket component direction to 90°as below.



Step 4: Adjust Mounting Bracket Angle

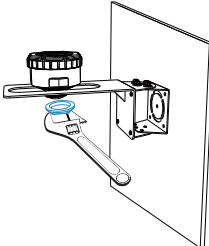
Step 5: Recommended Device Installation Location

Installation Height	Recommend Location
1-2m	1
2.1-3m	2
3.1-6m	3



Step 6: Fix Device

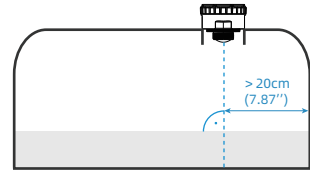
Max. torque: 4 N·m



Tank Installation

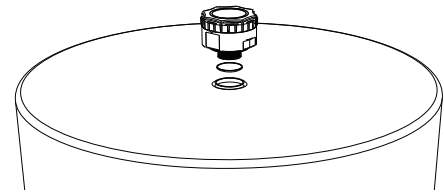
Step 1: Locate the Device Installation Position

- Place it away from the tank wall more than 20cm;
- Perpendicular to the measured liquid and with no obstacles between the device and the measured liquid.



Step 2: Fix Device

- Applicable Thread: G1 1/2"or G2 1/2";
- Adapters need to be purchased separately for other sizes.



7. Notice

- The installation location of the device should avoid strong vibrations, direct sunlight, and exposure to rain or snow.
- Do not place the device near objects that emit intense heat, strong electromagnetic fields, or radioactive materials.
- It is recommended to attach the magnetic base of external antenna to a manhole cover or other metal surface to ensure a good signal.
- After installation, please check the tilt status and distance measurement in the ToolBox App, and adjust the installation position, direction, or related parameters based on the results.

8. FCC Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and,
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- This equipment is used indoor. This equipment is prohibited to be used on satellite equipment..This equipment is field disturbance sensor and fixed installation. It is prohibited to use it on the vehicle radar systems. This equipment is prohibited to be used on the aircraft

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

9. CE Statement

Xiamen Milesight IoT Co., Ltd. hereby declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. You can find the Declaration of Conformity on www.milesight.com support.

This Device the following frequency bands in EU areas only and maximum radio-frequency power
Bluetooth 2402-2480MHz: 6.43 dBm
Lora 863.2 - 869.8MHz: 11.69dBm
Radar 59.5-61.5GHz: -2.71 dBm
NFC: 13.56 MHz -30.17 dBuA/m at 10m

客 户	
机 型	EM410_英文版本
材 质	80g双胶纸
尺 寸	120x85mm
工 艺	折页版
编 码	44.005.000434
版 本	V1.0