

LANSEN

QUICK INSTALLATION GUIDE

INDOOR/OUTDOOR LONG RANGE BATTERY REPEATER WITH EXTERNAL ANTENNA
[LAN-WMBUS-R4-B(E)-LR-A2-X]

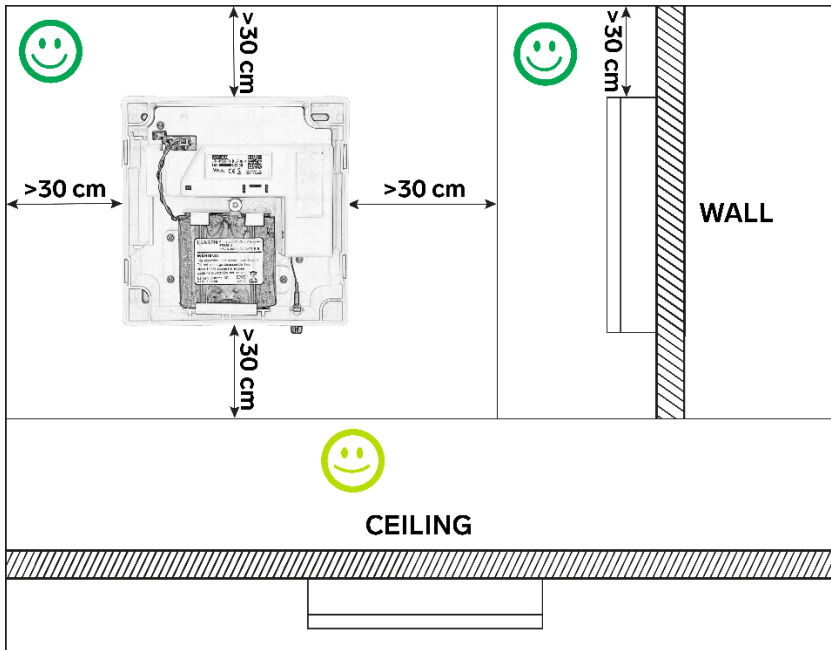


Recommended mounting instructions:

- Keep at least 30cm in all directions to other objects or walls/ceiling/floor.
- Can be mounted on many things such as walls, poles, pipes, and masts.
- The label on the device MUST be on the left side and the external SMA connection MUST point downwards, for the device to be fully protected against water.

Installation location and direction:

It is recommended to install the repeater upright on a wall, pole, pipe, or similar, but it can also be installed on a ceiling. It is highly recommended to mount the device as the image below.



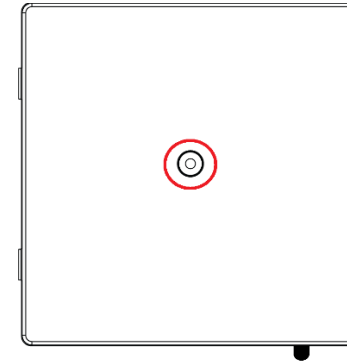
Step 1

Find a suitable place to install the repeater, such as walls, poles, or masts. To mount a repeater on a pole, or similar, it's recommended to use Lansen pole mounting kit (article number LAN-910-0066).

Step 2

Unscrew the screw (marked with a red circle on the image below) and remove the cover by pushing the clips at both sides of the cover.

Note: The screw is a Security Torx T20H (with a small pin in the middle).



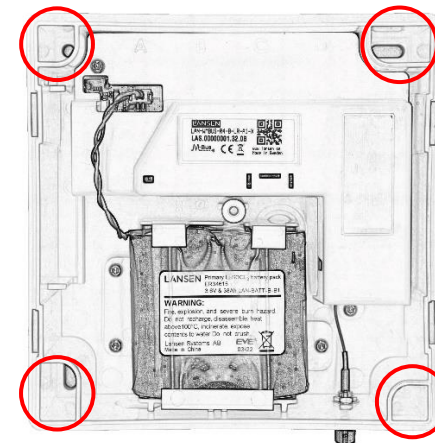
Step 3

Depending on how the repeater is going to be installed, one must follow different mounting instructions:

- a. Mounting on a wall: Go to **Step 4**
- b. Mounting on pole or mast: Go to **Step 5**

Step 4 (Mounting on a wall)

Take the repeater and hold it where it is going to be mounted. Mark the holes (red circles), pre-drill if necessary (depending on the material), and mount the device by using four screws (not included). Continue to **Step 6**.



Step 5 (Mounting on a pole/mast)

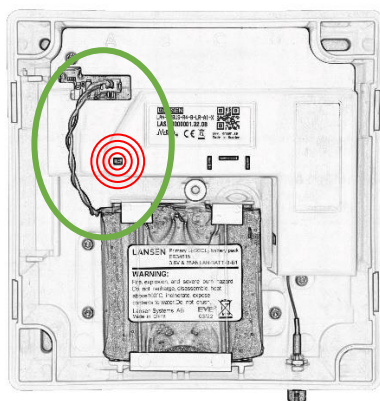
Install the Lansens pole mounting kit (article number LAN-910-0066) on the back of the repeater. Pull the straps through the holes and wrap it around the pole or pipe which the repeater is going to be mounted on and tighten the straps, so it is securely mounted.

Note: More detailed instructions with pictures will be available in next version of the installation guide!

Step 6

Connect the battery cable to the repeater as marked with green circle in the picture below. Three beeps will be heard during startup and a red LED will start blinking once for every packet the repeater retransmits.

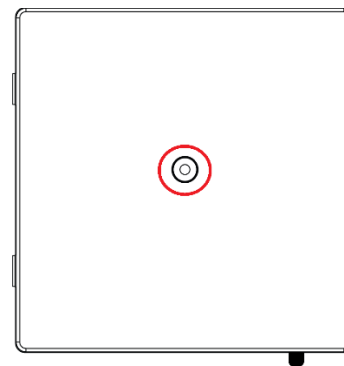
Note: If more beeps are heard a few seconds (~5s) after the first beeps, this indicates a problem with the device. Please contact place of purchase.



Step 7

Attach the cover and mount the screw (marked with a red circle on the image below). Make sure the clips at both sides of the cover are firmly attached.

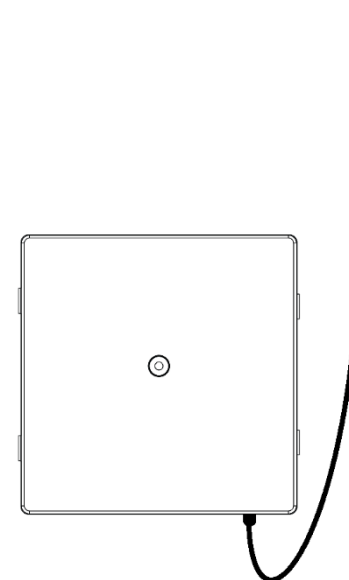
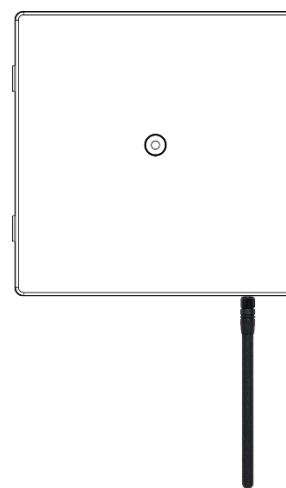
Note: The screw is a Security Torx T20H (with a small pin in the middle).



Step 8

Attach an external antenna to the device, either directly on the SMA connection (see left picture below) or with an antenna cable (see right picture below). Typically, smaller antennas are mounted directly on the SMA connection while larger antennas require being mounted upright and with an antenna cable.

Note: Antenna and antenna cable is not included.



Installation is now complete!