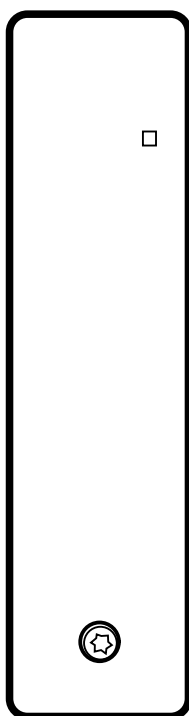


LANSEN

USER MANUAL *LAN-WMBUS-G2-EXT*

Version 1.0



Read The Instructions

Read and understand this manual and its safety instructions before using this product. Failure to do so can result in severe injury or death. Follow all instructions to avoid hazards like fire, explosions, or electric shocks.

Only use the product if you have fully read and understood the user manual. Ensure every user reads and follows these instructions before use. Keep safety information for future reference and pass it on to subsequent users. The manufacturer is not liable for damage or injury caused by incorrect handling or non-compliance with safety instructions.

Your safety and the device's proper functioning depend on adhering to these guidelines.

Intended Use

This device is designed for collecting measurement data from compatible external sensors and transmitting this information to a Wireless M-Bus receiver in accordance with applicable industry standards (e.g., EN 13757). The device is intended for installation, configuration, and operation by qualified personnel with appropriate training in metering systems, sensor integration, and wireless communication. Unauthorized use, modification, or operation by untrained individuals may result in improper functioning or non-compliance with regulatory requirements.

Explanation Of Symbols



Important information regarding instructions or recommendations for installation of devices.



Indicates a mandatory action to follow.



Warning, risk of bodily harm or death if handled without care.



The CE symbol is confirmation by Lansen Systems AB that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU and RoHS Directive 2011/65/EU (EU) 2015/863.



This symbol on the product or its packaging means that it should not be disposed of with household waste. It is your responsibility to dispose of your waste equipment separately from the municipal waste stream. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.

Important Safety Information



Risk of injury or death due to fire!

Contains LiSOCl_2 battery. DO NOT expose this product or its battery to temperatures above 85°C (185°F). Heating above 100°C (212°F) risks fire, explosion, or toxic gas release, and may cause permanent damage. Store and operate only within the specified temperature range. If the product or battery overheats, becomes damaged, or leaks: Discontinue use immediately, ventilate the area, and contact your supplier or a hazardous waste service. Never incinerate or dispose of in fire.



Do not attempt to alter or repair the device. If you are experiencing malfunction make sure to contact your place of purchase or visit our website.



Use ESD protection when handling the product with the PCB exposed to prevent potential damage to the electronics.

Disclaimer



Lansen Systems are not responsible for any damage, malfunction, or non-compliance resulting from the use of unauthorized accessories or modifications to this device.

Introduction

This external-sensor to wireless M-Bus transmitter from Lansen Systems is a plug-and-play device for seamless integration with supported pulse, analog, or digital sensors. It converts measurement data from connected external sources to the wireless M-Bus standard, ensuring reliable and accurate transmission. The device continuously sends the collected data via wireless M-Bus, making it ideal for integrating a wide range of external sensors into data collection systems.

For more information, visit *lansen.io*.

Label Information

The device label provides the essential identification information. See the example below.



- ① Product name
- ② Serial number
- ③ 2D barcode: Full device information

Example: Device information

LAS .00123456 .02 .0F

① ② ③ ④

① Manufacturer

② Serial number

③ Device

④ Protocol

Installation

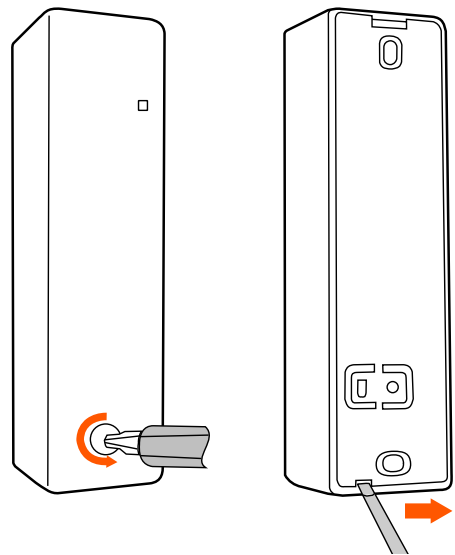


- Place the device vertically for best horizontal range.
- Place the device horizontally for best vertical range.
- Mount the device and receiver with the same polarization for maximum range.
- Do not place the device directly against metal objects.

Opening the device

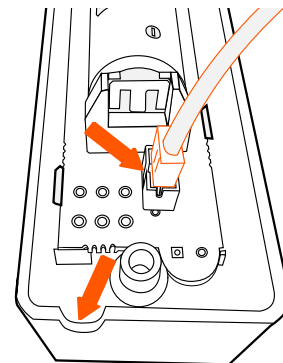
Open the device to access the connector for the external sensor, activate the device and to mount it with screws.

1. Use a Torx T10 screwdriver to remove the mounting screw.
2. Insert a small flat-headed screwdriver into the gap at the bottom of the front cover.
3. Carefully pry off the front cover.



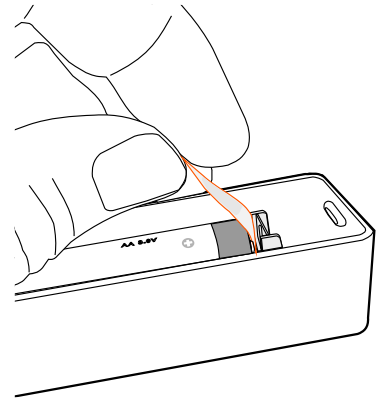
Connecting an external sensor

1. Make sure the external sensor has a 3-pin JST connector.
2. Orient the connector so that the slot fits in the notch in the connector terminal.
3. Gently press the connector in place.
4. Place the cable in the cutout in the front housing.



Activating the device

With the device open, remove the plastic pull-tab from the battery holder to activate the device. The device will start transmitting information at regular intervals.

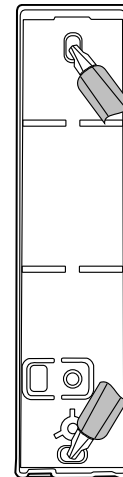


Mounting the device

The device can be mounted by using double-sided tape or screws (not included). Use screws to avoid accidental removal. Use double-sided tape when drilling holes is not possible.

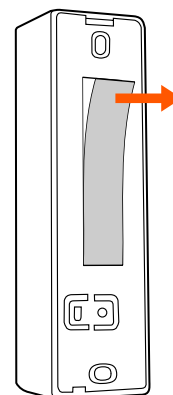
Mounting with screws

1. Attach the back cover to the mounting surface using screws appropriate for the surface material.
2. Close the device. (See *Closing the device*.)



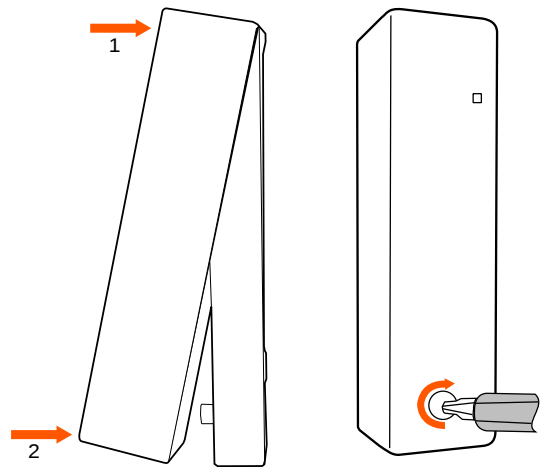
Mounting with double-sided tape

1. Apply double-sided tape to the back cover.
2. Remove the protective film from the tape.
3. Attach the device to a clean flat surface.



Closing the device

1. Align the top of the front cover with the top of the back cover.
2. Press the lower part of the front cover until it clicks into place.
3. Reinstall the Torx T10 screw.
4. Tighten the Torx T10 screw until the front cover is securely attached.



Specifications

Frequency band(s)	868 MHz
Output power (ERP)	< 14 dBm / < 25 mW
Battery	ER14505 3.6V Li-SOCl ₂ battery
Voltage	Device: 2.4 - 3.6V Probe: 2.7V

Troubleshooting

Issue	Possible Reason(s)	Potential Solution(s)
The device does not transmit data.	• The battery is depleted. • The device is outside radio coverage.	• Replace the battery with the specified battery type. • Move the device closer to the receiver or improve the radio path.
The device transmits, but no sensor values are shown.	• The sensor connector is not fully inserted. • The external sensor is not compatible with the device. • The sensor cable is damaged.	• Open the device and verify the 3-pin JST connector is fully seated. • Confirm that the connected sensor is supported for the configured input type. • Inspect the cable and replace the sensor or cable if damaged.
Sensor values are unstable or incorrect.	• The sensor is installed in an unsuitable location. • There is electrical noise or poor cable routing. • The sensor requires stabilization time after installation.	• Follow the recommended sensor placement instructions. • Route sensor cables away from strong electrical interference. • Wait for the sensor reading to stabilize and verify values again.

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Regulatory Information

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Lansen Systems AB declares that the radio equipment type defined by article name on the sticker is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
lansen.io/DOC

