

LANSEN

QUICK INSTALLATION GUIDE

LAN-WMBUS-uR-B, MICRO REPEATER



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.

Explanation of symbols



Important information regarding instructions or recommendations for installation of devices.



Indicates a mandatory action to follow.



Warning, risk for bodily harm 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 your other 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



Warning: Contains Li-SOCl₂ battery. Risk of fire, explosion, and severe burn hazard. Do not recharge, disassemble, heat above 100°C, incinerate or expose contents to water. Do not drop or otherwise physically abuse the battery. Only use batteries specified by Lansen.



Only store, transport, and use the product and any included battery under the conditions described in this user guide.



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.



Do not expose to water. Risk of device damage due to water ingress.

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.

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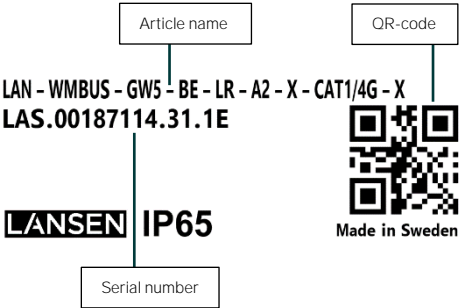
INTRODUCTION

The battery powered wireless M-Bus micro repeaters from Lansen are highly configurable plug-and-play devices used for extending the range between meters and a collector/gateway. The enclosure is chosen to make the repeater as discrete as possible.

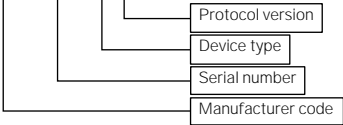
For more information, go to our website: www.lansen.io.

LABEL INFORMATION

The label on the repeater gives useful information about your device, see example below.



Article name: Full article name code of the device.
QR-code: Includes the wM-Bus serial number of the device.
Serial number: Full device information (example above:
LAS.00187114.31.1E)



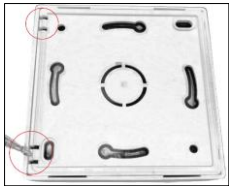
Specifications

Frequency band(s)	wM-Bus: M: 868,000 MHz to 868,600 MHz N: 868,700 MHz to 869,200 MHz
Output power (ERP)	< 14 dBm / < 25 mW
Usage conditions	-20 to 60 °C
Storage conditions	-20 to 60 °C
Transport conditions	-20 to 60 °C
Configurable	Yes, with a Lansen USB dongle. For more information, refer to the configuration manual.
Battery	2xER18505 LI-SOCL ² Nominal voltage: 3.6 V Nominal capacity: 7600 mAh

MOUNTING INSTRUCTIONS

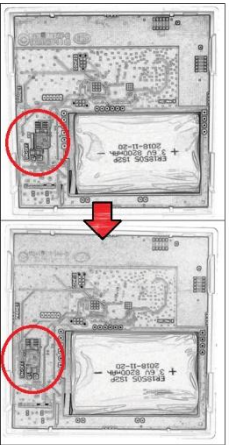
- It is recommended to install the device indoors to a wall. It can also be installed to a ceiling.
- The UP text and symbol on the mounting bracket must point upwards.
- The label on the device shall be on the right side when mounted.
- Mount the bracket with screws.

MOUNTING INSTRUCTIONS



Opening the housing

Turn the device upside down. Remove the mounting bracket by pushing the two plastic pieces, marked by red circles, inwards and then lifting the bracket up.

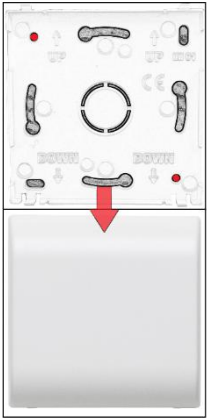


Starting the device

Locate the small, black, plastic jumper on the left side of the battery. Remove the jumper.

Place the jumper so it is connected to the two pins on the board. When the jumper connects to the two pins, the device is automatically powered on and the red LED will start to flash.

The startup sequence is successful when the flashing stops.



Closing the housing

Fasten the mounting bracket using the recommended mounting instructions, with the text UP pointing upwards. Use two screws in the two holes filled with red in the picture.

Mount the device on the mounting bracket. Make sure the label at the side of the device is on the right side.

The installation is now complete!

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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: www.lansen.io/DOC

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