

# LANSEN

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## QUICK INSTALLATION GUIDE

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MAINS CONCENTRATOR WITH OPTIONAL USE FOR EXTERNAL  
ANTENNA

LAN-WMBUS-C4-M-IP-A1  
LAN-WMBUS-C4-M-IP-A1-X



# 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.

## Symbols used in this quick installation guide



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.



Warning, risk of bodily harm or death due to electrical shock.

## Important safety information



**Warning:** An appropriate disconnection device such as short-circuit backup protections must be provided in the building wiring installation.

Furthermore, a 230 VAC installation **MUST** be carried out by an authorized installer (skilled person) according to the relevant electrical safety regulations.



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.

## 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.

## Copyright

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Lansen Systems AB is not responsible for any errors or omissions in this manual. The information provided is believed to be accurate and reliable, but Lansen Systems AB makes no warranty of any kind, express or implied.

ADDITIONAL INFORMATION

Please note that SIM-card, antennas, and antenna cables are not included. See our full range of antennas, cables, and other accessories under our “accessories section” online.

[www.lansen.io/assortment/accessories/](http://www.lansen.io/assortment/accessories/)

Items included:

- 1. 1x Quick installation guide.
- 2. 1x Grommet.
- 3. 2x Strain relief kit.

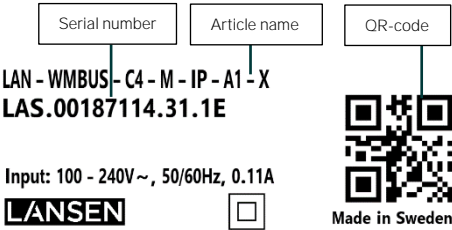
INTRODUCTION

The mains powered wM-Bus ethernet concentrator is an easy to install device used for collecting data from wM-Bus meters and sensors. The device will decrypt the data and convert it to M-Bus UDP or TCP format. To the M-Bus telegram, extra information is added such as RSSI, duration (age of message) and error information.

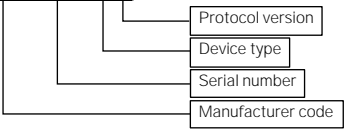
For more information, go to our website at [www.lansen.io](http://www.lansen.io).

LABEL INFORMATION

The label on the device 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

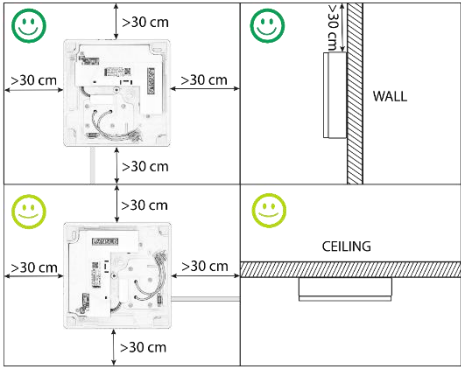
	WM-Bus
Frequency band(s)	M: 868,000 MHz to 868,600 MHz  N: 868,700 MHz to 869,200 MHz
Ethernet speed	100Mbit
Configurable	Yes, through the ethernet cable and a telnet client, such as PuTTY.
Input voltage	100 – 240V, 50/60Hz
Max Current	0.11 Amp
Hardware Interface	RJ45

**RECOMMENDED PLACEMENT INSTRUCTIONS:**

- Preferably mount on walls, indoors and away from water. Can be mounted on ceilings.
- Keep at least 30cm in all directions to other objects/walls/ceiling/floor.
- While mounting it on the ceiling is possible, please consider that it will change the radiation direction.

MOUNTING INSTRUCTIONS

It is highly recommended to mount the device as shown in the image below.

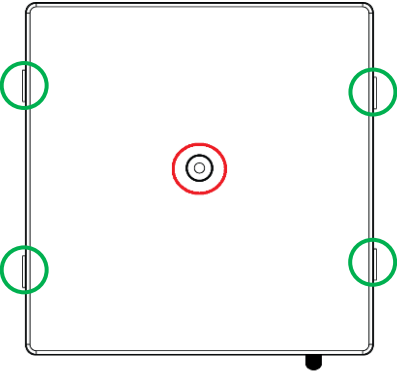


First Install

Opening the housing

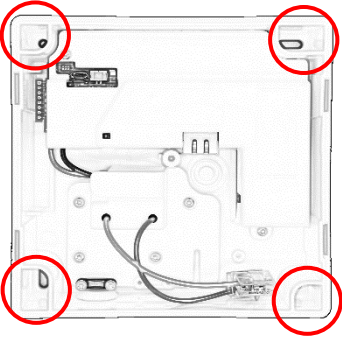
Unscrew the screw (red circle) and remove the cover by pushing the clips (green circles) on both sides of the cover.

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



Preparation for mounting

Hold the device where it is going to be mounted. Mark the holes (red circles), pre-drill if necessary.



### Stripping power supply cables



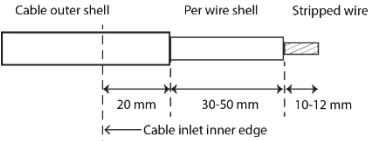
Risk of fire. Strip the power supply cables according to the diagram to avoid cable clamps attaching to wire shell instead of stripped wire.

Diameter for the cable when entered through the silicon grommet is:

Minimum 6mm.

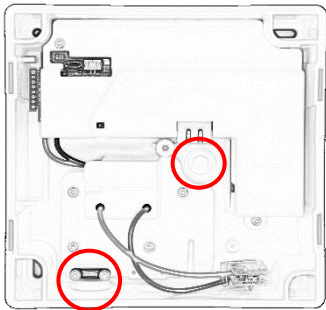
Recommended 8mm.

Maximum 10mm.



### Installing the power supply cable

The power supply cable can be mounted either through the cable guide at the side or through the hole on the bottom. By using the hole on the bottom, the concentrator can be mounted directly on an outlet to hide cables. If using the inlet on the side, only use the one marked in the picture below.



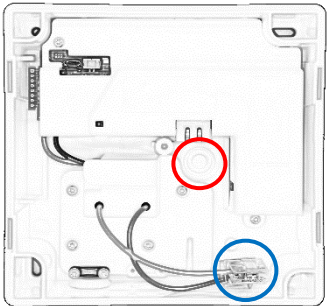
### Using the bottom cable inlet



Prevent chafing damage to your cable by carefully cutting, drilling or punching out the hole marked in the picture below. Thread the power supply cable through the cable inlet in the bottom (marked by a red circle). Connect the power supply cable to the coupling clamps on the inside (marked by a blue circle).



**Warning:** Risk of electrical shock. Must be mounted on top of the cable outlet of the wall to avoid pulling live wire out of the device.



## Using the side cable inlet

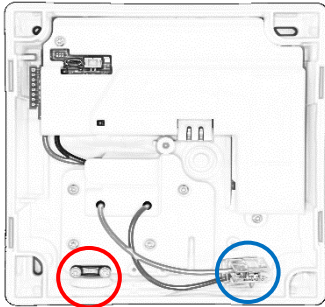


Risk of water ingress. Use a round awl to perforate the silicone grommet to guarantee a perfectly round hole.

Thread the power supply cable through the cable inlet on the side (marked by a red circle). Connect the power supply cable to the coupling clamps on the inside (marked by a blue circle).

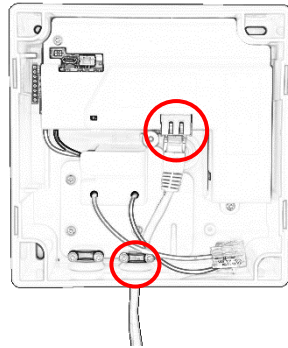


**Warning:** Risk of electrical shock. Use the strain relief which is included in the package to avoid pulling live wire out of the device.



## Attaching the ethernet cable

1. Connect the ethernet cable to the PCB. See picture below for which inlet to use. **Attach** the pre-cut grommet included in the box to the cable.
2. Press the grommet into the hole next to the pre-mounted grommet on the side.
3. Attach the strain relief cable clamp, which is included in the package.



## Starting and mounting

If you are using the -X version, attach the antenna. Turn on the device to make sure everything is working as intended. Finalize by mounting the device, using the preparations made in **Preparation for mounting**. Please note that we do not supply screws.

## Configuration

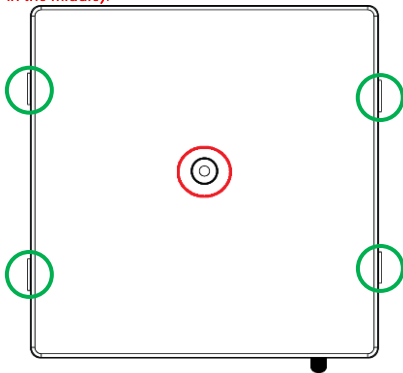
For more information about configuration, see our "Config of device" manual, found on our website.

[www.lansen.io/assortment/infrastructure/converters/](http://www.lansen.io/assortment/infrastructure/converters/)

## Close the housing

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).**



### 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: <https://www.lansen.io/DOC>

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