LANSEN

QUICK INSTALLATION GUIDE

LAN-WMBUS-B4-B(E)-MIOTY-A1/A2

Version: 1.1

ENGLISH

SYMBOLS:

Important information regarding instructions or recommendations for installation of device.

Warning, risk for bodily harm if handled without care.

NOTICE:

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

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.

It is recommended to use ESD protection to prevent potential damage to this product.

WARNING:

Battery: Fire, explosion, and severe burn hazard. Do not recharge, disassemble, heat above 100°C, incinerate, expose contents to water. Do not crush.

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.

All articles listed can be found on our website: https:///www.lansen.io/assortment/accessories/

Article Name	Description
LAN-WMBUS-D2-TC	Lansen Configuration Dongle
Lansen Configurator	Software for Lansen Dongle
LAN-CF-CABLE	Configuration Cable, USB
LAN-A-PMB-KIT-ID58-78	Pole mounting kit
LAN-MAG-R4	Magnet with telescopic shaft
LAN-R4-IP-KIT	Sealing kit for A1 enclosure
LAN-ANT-868-HW-DP	868mHz Dipole antenna, SMA, 130mm
LAN-ANT-868-PR-3LW	868mHz antenna, outdoor use, 1,2 meters, 4dB gain
LAN-SMA-N-L300	SMA-to-N antenna cable, 300 cm
LAN-SMA-N-L100	SMA-to-N antenna cable, 100 cm
LAN-BATT-BR-B1	Battery with supercap, 3,6v, 38Wh, black

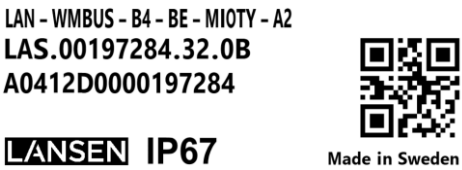
INTRODUCTION

The battery powered wireless M-Bus to mioty, OMS4mioty, bridges from Lansen are highly configurable devices used for extending the range between meters and a gateway by converting incoming wM-Bus (OMS3/4) to outgoing OMS over mioty. In other words, it bridges between wM-Bus and mioty.

For more information, visit our website www.lansen.io.

LABEL INFORMATION

The label on the device gives necessary information about a specific device. See example below for wM-Bus and mioty.



Article name: LAN – WMBUS – B4 – BE – MIOTY – A2

IP Classification: IP67

wM-Bus:

wM-Bus serial number: LAS.00117128.32.0B
Manufacturer code: LAS
wM-Bus Identification number: 00117128
Device type (hex): 32
Protocol version (hex): 0B

By using the QR-code you will receive all the wM-Bus information regarding the device.

mioty:

mioty serial number: A0412D0000197284
Manufacturing code: A0412D00
Identification number: 00197284
Short address: 7284

SPECIFICATIONS

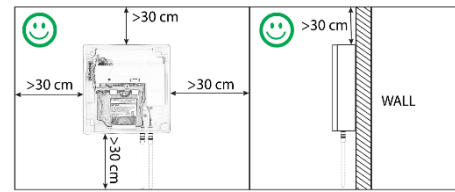
	wM-Bus	mioty
Frequency band(s)	M: 868,000 MHz to 868,600 MHz N: 868,700 MHz to 869,200 MHz	EU1: UL Ch.B: 868.080 MHz UL Ch.A: 868.180 MHz
Output power (ERP)	LAN-WMBUS-B4-B(E)-MIOTY-A1/A2: < 14 dBm / < 25 mW	
Configura-ble	LAN-WMBUS-B4-B(E)-MIOTY-A1/A2: Yes, by dongle.	
Battery	2xER34615 Li-SOCl² Nominal voltage: 3.6 V Nominal capacity: 38000 mAh 2xER34615+SPC1550/W Li-SOCL² Nominal voltage: 3.6 V Nominal capacity: 38000 mAh	

RECOMMENDED PLACEMENT INSTRUCTIONS:
(A1 Indoors) It is recommended to install bridges indoors to walls, but they can also be installed to the ceiling. It is highly recommended to mount the device as the image on the next page.

(A2 Indoors and outdoors) It is recommended to install the bridge upright on a wall, pole, pipe, or similar, but it can be installed on a ceiling as well. It is highly recommended to mount the device as the image on the next page.

The label on the device should be on the left side.

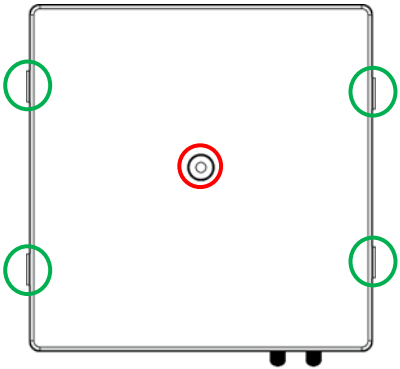
Keep at least 30cm in all directions to other objects or walls/ceiling/floor.



Installing and mounting

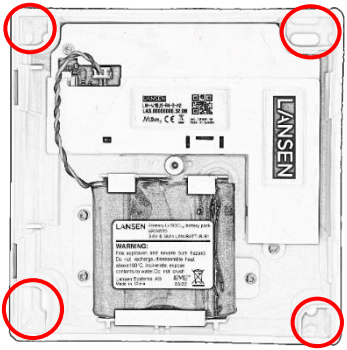
Step 1:

Unscrew the screw (marked with a red circle, **Security Torx T20H**) and remove the cover by pushing the clips (green circles) at both sides of the cover.



Step 2a: Mounting on a wall or ceiling

Hold the bridge where it is going to be mounted. Mark the holes (red circles), and mount the device by using four screws (not included).



Step 2b : Mounting on a pole/mast (A2)

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

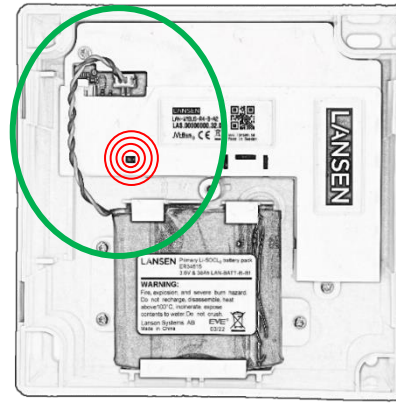
Note: More detailed instructions with pictures will be available in next version of the installation guide!

Step 3: Startup sequence

Connect the battery cable to the bridge as marked with green circle in the picture to the left. Three beeps will be heard during startup.

The LED will light up for approximately 1 minute, then it will quickly listen for wM-Bus packages and send a mioty test package so you can see it is working. Once the startup sequence is completed (takes approximately 2 minutes) it will beep once more and begin listening for wM-Bus packages.

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 4: Configuration of device

We recommend connecting to the device using a Lansen USB-dongle (LAN-WMBUS-D2-TC) with the software *Lansen Configurator.*

Should you require to reconfigure the device, simply use a magnet to the left of the outside label until you hear a beep. This will force the device to send a mioty test package and once you hear a second beep it will go into listening mode for approximately 10 minutes which will allow you to connect and configure the device.

The bridge requires a list of whitelisted devices before it is fully functional. This can be done for each meter/sensor individually or by using a CSV file in *Lansen Configurator.* We strongly advice against using the parameter "Automatic meter installation" as it will very quickly drain the battery of your device.

Once your meters have been manually added you can confirm that their packages are being received in the meter list as they will turn from white to a color (representing RSSI value) once a package has been accepted by the bridge.

Step 5: LED and sound indications

LED		
Red	Steady on	Sending mioty package
	Blinking	Receiving wM-Bus package(s)
	Blinking once every minute	Power saving mode, indicating it is still running

Note: Once a magnet has been used the LED will be active for 15 minutes before going back into power saving mode.

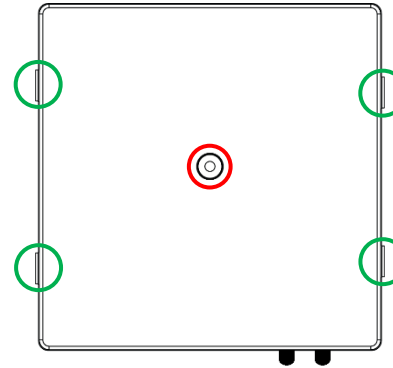
There are four separate times the bridge will beep:

1. Once started it will beep three times.
2. Once the startup sequence is finished it will beep once.
3. If you use a magnet to force it into listening mode it will beep when you use the magnet.
4. After using a magnet it will send a mioty status package and then beep when finished. Indicating that it is in forced listening mode for approximately 10 minutes.

Step 6:

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).



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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: http://www.lansen.io/DOC