LANSEN
WIRELESS BUILDING TECHNOLOGY

µREPEATER
Wireless M-BUS

DEVICE

The super small mains powered µRepeater device from Lansen is a plug-and-play repeater for extending the range between a device and a collector. Much care have been taken to design a sleek, good looking device with high security and performance. The design allows for discrete integration when mounted in home environment.

PERFORMANCE

The device has a robust design with tamper detection if opened or removed from the wall. A message is sent if sabotage is detected or restored.

Every hour a message is sent from the device with number of routed packages. This message could be used as an indication the device is up and running.

The device is highly immune to electrical disturbances that could be generated from example LED lights in buildings, etc.

ROUTING

The advanced collision algorithm minimizes problems with collisions and data repetition. To ensure proper functionality a 5 seconds delay is used before repeating the message. The repeater family normally works with maximum 1 hop. That means that data cannot be sent from repeater to repeater, but if desirable up to 3 repeaters can be cascaded to cover even larger distances.

CONVERTER

The µConverter is a software option for the µRepeater. The device does not only extend the range, it also support conversion between different W-MBUS modes. The incoming data could be S mode for extended range and output could be T mode for increased compability.

CONFIGURATION

All devices could be used right out of the box but they are also highly configurable. It is for example possible to configure the manufacture code to avoid routing data from manufacturers not used in the system. The repeaters can also be configured to use specific MBUS mode. The µConverter can even be configured to convert data between different modes.

FIRMWARE

MODES	T or S mode (configurable), (868MHz)
DELAY	5 seconds (configurable)
REPETITION	3 times (configurable)
ENCRYPTION	AES128 encryption OMS mode 5 (configurable)

WARNINGS

TAMPER DETECTION	Product opened or removed from the wall

POWER/LIFETIME

POWER SUPPLY	AC/DC adapter (100-240V AC)
VOLTAGE	5V DC / 650 mA

GENERAL INFORMATION

STANDARDS	EN 300-220, EN 301-489, EN 60950-1
	EN 13757-3/4:2013, OMS 3.0.1
TEMPERATURE	-20^0 / $+55^0$
RELATIVE HUMIDITY	None condensing
COLOR	White
SIZE (W x H x D)	25.5 x 105 x 22 mm
MATERIAL	ABS

DEVICES

LAN-WMBUS-R-U	µRepeater
LAN-WMBUS-R-CU	µRepeater with with different Wireless-MBUS input and and output mode

Rev. 1.0