LANSEN
WIRELESS BUILDING TECHNOLOGY

PULSE COUNTER
AMR-Wireless M-BUS

DEVICE

The pulse counter device from Lansen is a plug-and-play pulse-counter transmitter. 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 bit in the status message is set if sabotage is detected or restored. The battery level is continuously monitored and a low level warning is issued when battery is nearing depletion.

FIRMWARE

MODES	Configurable C, T or S
INTERVAL	Configurable 60s - 1 hour
ENCRYPTION	AES128 encryption OMS mode 5, Profile A. Configurable ON/OFF, and KEY
STANDARD	T1-Mode, 5 minutes, Encryption ON.

DATA CONFIGURATION

SENSOR TYPE	Water, Electricity, HCA, Room sensor device, etc. All types available according to EN-13757-3
VALUE FORMAT	0,001 Wh to 10000 Wh/ pulse
	0,001 to 10000l / pulse etc
	Unconverted dimensionless value.
	All settings available according to EN-13757-3
STANDARD	Room sensor device
	Unconverted dimensionless value

WARNINGS

TAMPER DETECTION	Product opened or removed from the wall (optional)
BATTERY	Low battery

POWER/LIFETIME

POWER SUPPLY	3.6V Li-SOCl2, AA battery
VOLTAGE	2.4 to 3.6V
LIFESPAN	14 years typical, depending on configuration and operating temperature.
RADIO	14 dBM output power to antenna

GENERAL INFORMATION

STANDARDS	2014/53/EU (RED)
	EN 13757-3/4:2013, OMS 4.0.2
TEMPERATURE	-40^0 to +85^0, None condensing
CASING	White ABS , 25.5 x 105 x 22 mm
PULSE INPUTS	2 simultaneous -P variant. 1 -OOP variant
MINIMUM PULSE	5 ms

DEVICES

LAN-WMBUS-G2-P	Pulse counter device
LAN-WMBUS-G2-OPP	Pulse counter with optical probe
LAN-CF-CABLE	USB Configuration cable

MOUNTING

The device can be mounted directly on the wall with optional sabotage function. An adapter can also be ordered for DIN-Rail mounting.

PULSE COUNTER

It is possible to count pulses from two devices simultaneously. These devices could be for example water meters, electricity meters (connected to the S0 port), etc. The advanced debouncing algorithm makes sure that only correct pulses are counted for high reliability. Pulses from the electricity meter LEDs can also be counted using an optical probe.

MEASUREMENTS

The total number of pulses is sent periodically using the Wireless MBUS protocol. This makes the sensor ideal for integration in data collecting systems. The data from the device could also be protected using the AES128 encryption compliant with OMS standard.

CUSTOMIZATION

The MBUS mode, transmission interval and encryption can be configured using a USB configuration cable connected to a PC. The device can also be configured to use an optical probe.

Rev. 2.2