LANSEN
A FIDELIX COMPANY

P1 Transmitter

LAN-WMBUS-HAN-P1

DEVICE
This P1 to wireless M-Bus converter from Lansen is a plug-and-play device for seamless integration of Swedish P1-equipped energy meters with Wireless M-Bus data collection systems.

PERFORMANCE
The internal radio antenna is optimized for 868MHz and is tuned for mounting on concrete, wood or plaster.

MEASUREMENTS
Every message contains the current status and the message is sent at fixed interval (configurable) or as soon as there is a change in the input.

The data is sent using the wireless M-Bus protocol OMS compliant and this makes the sensor ideal for integration in data collecting systems. Furthermore, the data from the device is protected using the AES128 encryption compliant with OMS standard.

INSTALLATION
Simply connect the the pre-attached RJ12 cable to the P1 port of the electricity meter.

The transmitted can be mounted with tape or screws.

CONFIGURATION
The MBUS mode, transmission interval and encryption can be configured using a USB configuration cable connected to a PC.

FIRMWARE

MODES	Configurable C-, T- or S-mode (selectable on order)
INTERVAL	Configurable 20 s - 1 hour (selectable on order)
ENCRYPTION	AES128 encryption OMS mode 5, Profile A. Configurable ON/OFF and custom KEY
STANDARD	T1-mode, 20 seconds. Encryption ON, unique key

POWER

POWER SUPPLY	P1 port or optional power splitter (see accessories)
VOLTAGE	5V
RADIO	14 dBm (25 mW) output power to antenna. ERP typical: 13 dBm (19.95 mW)

GENERAL INFORMATION

STANDARDS	2014/53/EU (RED)
	EN 13757-3/4:2013, OMS 4.0.2
MATERIAL	White, ABS
SIZE (W x L x D)	25.5 x 105 x 22 mm

OPERATING CONDITIONS

RADIO TRANSMITTER	Max: -30°C to + 85°C
	Recommended: +5°C to +50°C
RELATIVE HUMIDITY	None condensing

DEVICES
LAN-WMBUS-G2-HAN-P1

ACCESORIES

LAN-910-0082	P1 PSU kit DIN-mount
LAN-890-0083	P1 PSU kit Screw-mount

M-Bus wireless

OMS®

LANSEN SYSTEMS AB
sales@lansen.io/www.lansen.io
Rörkullsvägen 7
S-302 41 Halmstad
Sweden