energostack

Optosense

EEM7-OS

The EEM7-OS Optosense sensor is designed to be connected to electricity meters with a signal LED diode indicating the power consumption. It has one input and the main measured data is the aggregate of pulses from the electricity meter. The sensor is battery-powered and transmits the measured data wirelessly via the gateway to a cloud.

Technical data

Measured data	electricity consumption (indirect impulse reading) [imp]
Physical dimensions	85 × 65 × 45 mm
Weight	250 g (including batteries)
Material	ABS plastic
Protection	IP20
Working conditions	from −20 °C to + 60 °C, < 80 % RH (non-condensing)
Interface	optical probe (fixed), probe cable length approx. 50 cm
Required accessories	gateway EWG6-C, holder
Power supply	2× exchangeable alkaline C 1.5V
Battery life	> 2 years (max. 5 years)
Connectivity	433MHz Radio (Chirp protocol)
Radio range	< 100 m (depending on the local conditions)
Transmitting power	< 10 mW
Transmission time	< 5 ms
Transmission period	5 s
Resolution of metering	depends on electrometer conversion constant [imp/kWh]
Accuracy of metering	1 imp
Range of metering	32-bit impulse counter; > 0,2 ms pulse width
Activation	by placing on designated holder, by measurement (from 05/2021)