

# Optosense

EOS6-OS

The EOS6-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

<b>Measured data</b>	electrical consumption (indirect impulse reading) [imp]
<b>Physical dimensions</b>	45 × 92 × 29 mm without antenna
<b>Weight</b>	150 g
<b>Material</b>	ABS plastic, Aluminium
<b>Protection</b>	IP20
<b>Working conditions</b>	-20 °C to + 60 °C, < 80 % RH (non-condensing)
<b>Interface</b>	1× optical probe port (RJ-9) + 1× antenna (SMA female)
<b>Required accessories</b>	gateway EWG6
<b>Optional accessories</b>	holder, external antenna
<b>Power supply</b>	2× exchangeable AA alkaline battery 1,5 V
<b>Battery life</b>	> 2 years (max. 5 years)
<b>Connectivity</b>	433MHz Radio (Chirp protocol)
<b>Radio range</b>	< 100 m (depending on the local conditions)
<b>Transmitting power</b>	< 10 mW
<b>Transmission time</b>	< 5 ms
<b>Transmission period</b>	5 s
<b>Resolution of metering</b>	depends on electrometer conversion constant [imp/kWh]
<b>Accuracy of metering</b>	1 imp
<b>Range of metering</b>	32-bit impulse counter; > 0,2 ms pulse width
<b>Conversion constant</b>	100, 400, 500, 600, 800, 1000, 1250, 1600, 3200, 4000, 5000, 10000