

Electricity Monitor



Description

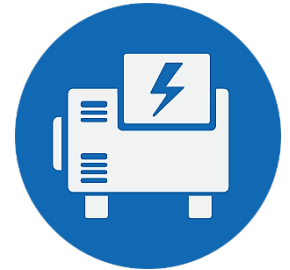
The electricity monitor from *Smart Box & GeoPortal* accurately measures the quality and the consumption of electrical power of any three-phase or single-phase (4-wire) circuit from 10 A to 5000 A.

Operation

The monitor measures AC voltage and current with split-core transformers. Data is wirelessly communicated with our portal to analyze electrical energy consumption in real time. The monitor is compatible with most devices without the need to change the existing electrical installation. It provides an easy way to automatically retrieve and analyze power quality and efficiency events. Unlike traditional energy management systems, the monitor extracts real-time energy consumption information from your building, plant or machine and provides you with useful data on your mobile or PC for visualization and analysis.

Main Features

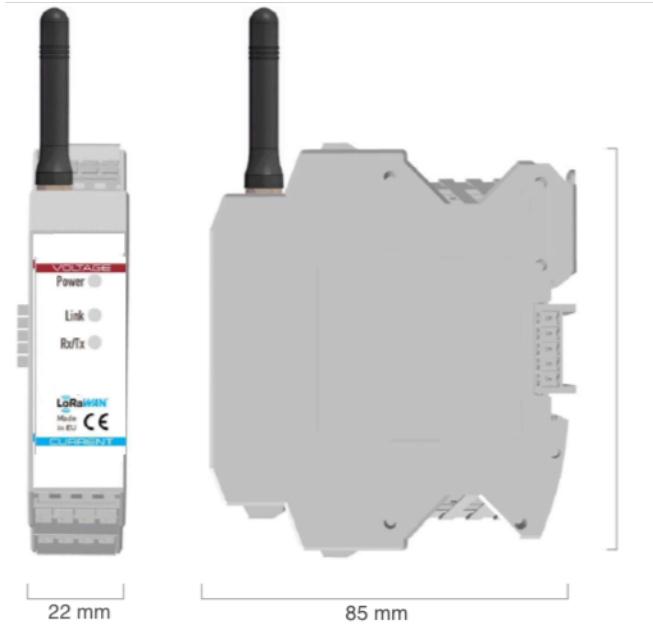
- Uses LoRaWAN technology
- Range of the wireless network: 3 km
- Measures: V, A, kW, kvar, kWh, kvarh, power factor
- RMS voltage, RMS current, maximum instantaneous value
- Active power - per phase and total
- Reactive power - per phase
- Power factor: absolute value, sign, inductive / capacitive
- Active energy: per phase, total, direction, load profile
- Easy to install and maintain



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Specifications

Voltage	
Nominal voltage (Vn)	3 x 120 – 400 VAC
Voltage range	0.5 Vn – 1.15 Vn
Frequency	60 Hz
Current	
Nominal current (In)	10 – 200 A
Maximum current	400 – 2000 A (5000 A available)
Minumum current	0.05 In
Physical configuration	
Size (L x W x H)	100 x 85 x 22 mm (without antenna)
Weight	150 g
Mounting	35mm DIN rail
Standards and Certifications	
Protection class	IP40
Temperature range	-40 – 70 °C



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