



Features & Benefits

- Compact Design
- Firmware Upgrades Over The Air
- Class C End-device
- Safety First Design
- Internal temperature sensor and overheating protection

Technical Overview

Compact 16A relay and electricity meter. The device is small enough to fit behind most wall switches and power equipment, enabling you to automate, track, and control your electrical appliances. This is possible as the device has 4 terminals L, N, N, Lout, and it works in a way that connects and disconnects Lout from L. With an overheating protection mechanism, it is ideal for rapid building retrofitting.

Technical Specification

Radio output type	LoRaWAN 1.0.3
Frequency Range	EU863 - 870; Other LoRaWAN regional settings available upon request
Security	LoRaWAN End-to-End encryption (AES-CTR)
Housing colour	Grey
Dimensions	32 x 36 x 18mm
Power Supply	100-240VAC / 24-30VDC
Consumption	50mA
Max Switching Voltage	240VAC / 30VDC
Max Switching Current	16A AC (8A AC for @ $\cos\theta=0.4$) / 10A DC
Max Switching Power	3840W (2000W for $\cos\theta=0.4$) AC / 300W DC
Safety Functions	Includes; Power Measurement, Voltage Protection/ Cutoff, Current Protection/ Cutoff, Max Power Protection/ Cutoff, Overheating protection, Overvoltage Protection, Overcurrent protection.
Supported Load Types	Resistive - incandescent bulbs, heating devices / Inductive - LED light drivers, transformers, fans, refrigerators, air-conditioners

Link Budget	130dB
RF Transmit Power	14dB
Voltage Sensor Resolution	0.1V
Voltage Sensor Accuracy	±1%
Current Sensor Resolution	0.01A
Current Sensor Accuracy	±1.5%
Electricity Meter Sensor Resolution	0.01kWh
Electricity Meter Sensor Accuracy	±1.5% accuracy @ 10A 230VAC
IP Rating	IP25
Operating Humidity	0-80% RH (non-condensing)
Operating Temperature	-10 - +60°C
Country of origin	Bulgaria

Related Product Codes

RF-LW-IO-16A	16A Switch & Power Meter LoRaWAN
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