



## LoRaWAN<sup>®</sup> energy meter plug with I/O

The EGK-LW22PLG is a compact C-class LoRaWAN<sup>®</sup> meter that can monitor and switch a 230Vac - 16A Load (active, reactive and apparent energy, Class 0.2s), equipped with a rechargeable battery for mains outage detection, with configurable default power-on status.



Energy Meter



Digital  
Inputs



Digital  
Outputs



Thresholds



Battery for  
power failure  
alert



Bluetooth



ON/OFF

### Smart

- Programmable power thresholds for **real time** event.
- **Internal battery** for power failure alarm

### Customizable

- **Programmable thresholds** via app or remote
- Button can be deactivated
- **Configurable** output status at power on

### Simple

Easy installation  
and set-up



### Multimeasures

Cumulative active, reactive and apparent energy,  
instantaneous active, reactive and apparent power,  
instantaneous voltage, current and period and running time

### Bluetooth

Bluetooth interface for  
**configuration** and  
**diagnostic**



**High accuracy  
Measurement**

# EGK-LW22PLG

## LoRaWAN® energy meter plug with I/O

### Applications

- Energy metering
- Powerline quality measure
- Remote load control
- Mains blackout alarm
- Machinery maintenance



### Specifications

- CPU ARM Cortex M4
- Class C LoRaWAN® 1.0.2 , EU868
- OTAA/ABP activation
- Metering and switch of a 230Vac - 16A Load (active, reactive and apparent energy, Class 0.2s)
- Error on energy measurement  $\pm 0.2\%$  @100% load
- Configurable default power-on status
- Instantaneous reading of active, reactive and apparent power, voltage and current
- Power supply from line, 230 VAC, 50 Hz
- Bicolor led (green, blue), for output and LoRaWAN® status
- Overload protection
- Rechargeable battery for powerline outage detection
- Embedded antenna
- Pushbutton for forcing transmission or re-join, ON/OFF (lockable),
- Time interval based or thresholds based uplink
- Transmission @868 MHz, 14dBm max.
- BLE 5.0 interface for configuration, data reading and FW upgrade
- Remote configuration
- Storage temperature  $-10^{\circ}\text{C} \div +70^{\circ}\text{C}$
- Working temperature  $-10^{\circ}\text{C} \div +50^{\circ}\text{C}$
- Dimensions: 110x62x35mm
- Protection grade: IP20
- Weight: 140g



EGK-LW22PLG  
official web page:



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