

1. DESCRIPTION

The MCF-LW12PLG is a compact C-class LoRaWAN™ meter that can monitor and switch a 230Vac-16Amp Load (active, reactive and apparent energy, Class 0.2), equipped with a rechargeable battery for mains outage detection, with configurable default power-on status.



2. INSTALLATION

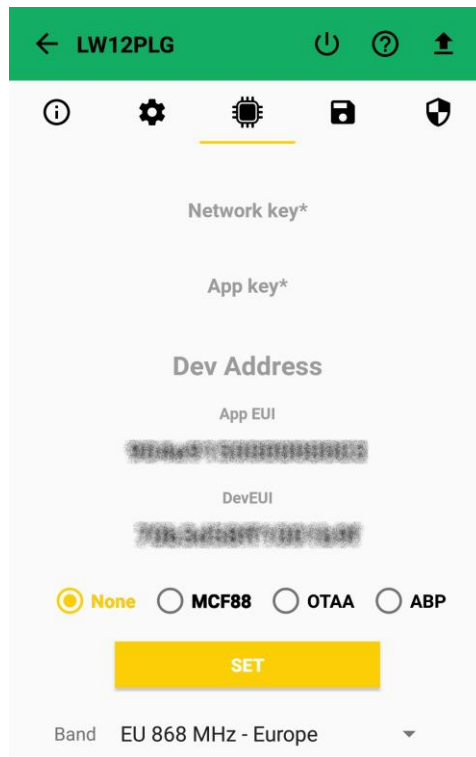
If correctly configured, when the device is powered, it connects to the LoRaWAN™ network. The connection status is visible on the front red/green led.

This device sends an uplink when the power fails thanks to the internal rechargeable battery.

Please note that the MCF-LW12PLG, at the first power-on, must be powered for at least 5 hours to ensure the full operation of the battery.

3. DEVICE CONFIGURATION

Configuration can be done using mcf88 LoRA Tool APP (available on Google Play) installed on a NFC smartphone:



The application allows, in addition to parameters configuration, the firmware update.

The NCF antenna is located on the front of the device, left side, as indicated in the picture:



4. LORAWAN ACTIVATION

The device supports the following activations on a LoRaWAN™ network:

1. NONE: sensor not activated
2. OTAA: the appkey and AppEUI must be written to the device.
3. OTAA MCF88: Over the air activation according to mcf88 specifications
4. ABP: requires writing to the device of NwkSkey, AppSkey, DevAddr

The device exits factory activated with NONE mode.

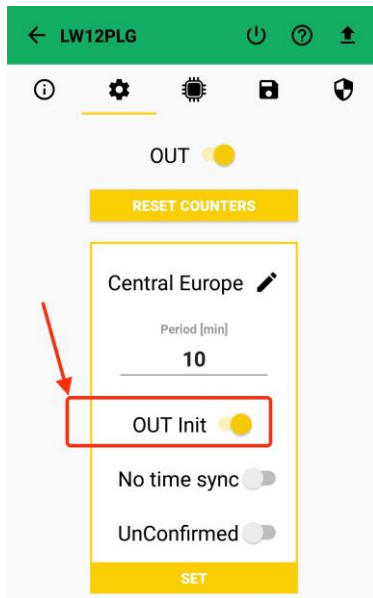
The DevEUI of the device is shown on the product label.

Further features are:

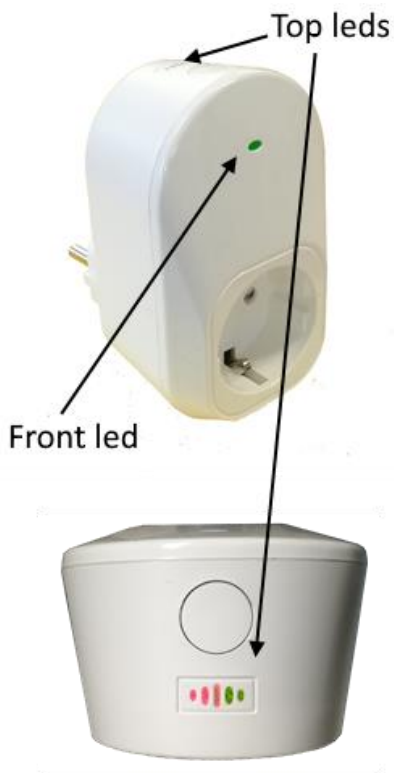
LoRaWAN™ class	=>	class “C”
measuring interval	=>	10 min (configurable)
transmission interval	=>	every measures

5. POWER-ON STATUS CONFIGURATION





To configure the status of the relay output at power-on, set the proper flag on the App:





6. LEDS



Front led:

 The icon consists of two circles stacked vertically. The top circle is split diagonally from the top-left to the bottom-right, with the top-left half being red and the bottom-right half being light pink. The bottom circle is split diagonally from the top-left to the bottom-right, with the top-left half being green and the bottom-right half being light green.	LoRaWAN not configured
 The icon consists of two circles stacked vertically. The top circle is solid red. The bottom circle is split diagonally from the top-left to the bottom-right, with the top-left half being green and the bottom-right half being light green.	Joining
 The icon consists of a single solid green circle.	Steady state
 The icon consists of a single circle split diagonally from the top-left to the bottom-right, with the top-left half being green and the bottom-right half being light green.	Uplink in progress

Top leds:

 The icon consists of a single solid red circle.	Output ON
 The icon consists of a single circle split diagonally from the top-left to the bottom-right, with the top-left half being green and the bottom-right half being light green.	Active energy

7. ORDERING CODE

Ordering Code	Description
MCF-LW12PLG	LoRaWAN™ Energy Meter plug with On/Off EU863-870
MCF-LW12PLG-AS	LoRaWAN™ Energy Meter plug with On/Off AS923