

1. DESCRIPTION

The MCF-LW12TERWP is a IP67 battery powered sensor that reads temperature, humidity and pressure and sends collected data over the LoRaWAN™ network. Ideally suited for a wide range of applications such as weather stations, urban monitoring, air quality, industrial, environmental or farming projects.



2. INSTALLATION

To ensure correct operation and reliable and consistent measurements, install the MCF-LW12TERWP sensor away from direct sunlight and rain. The device must be placed where the LoRaWAN signal coverage is good (SF = 7 optimal, SF = 12 weak). The sensor can be installed on the wall or pole using the included accessories.

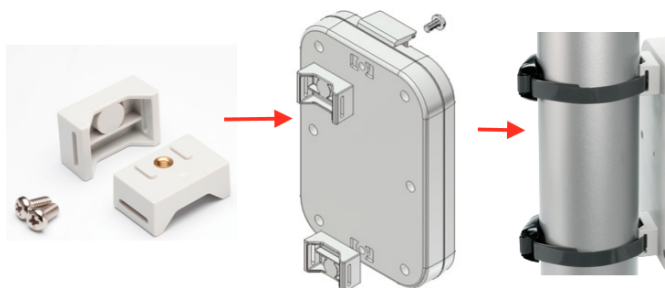
3. WALL MOUNT

For mounting onto the wall open the blind lids:



4. POLE MOUNT

For installation on poles, pillars or posts use the included bracket and fasteners:



5. FIRST POWER-ON OF THE SENSOR

The sensor is shipped completely off to prevent battery consumption during storage. It is therefore necessary to carry out a first power-on prior to commissioning.

Move the NFC antenna of the telephone (the exact position varies depending on the model of the smartphone) to the sensor antenna, in the area shown in the figure.



In case of long period inactivity, if necessary, is possible to shut-off again the sensor to prevent battery consumption, using the mcf88 APP.

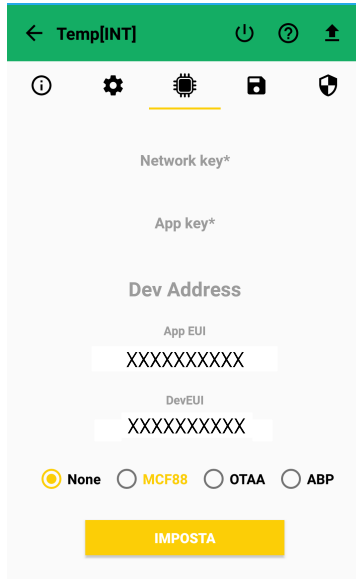
6. LORAWAN ACTIVATION

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.



← Temp[INT] [Power] [Help] [Share]

[Info] [Settings] [Microcontroller] [Save] [Shield]

Network key*

App key*

Dev Address

App EUI
XXXXXXXXXX

DevEUI
XXXXXXXXXX

☒ None ☐ MCF88 ☐ OTAA ☐ ABP

IMPOSTA

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

Further features are:

lorawan class	=>	class "A"
measuring interval	=>	10 min
transmission interval	=>	every 3 measures