

LoRaWAN[®] outdoor environmental sensor



This IP67 battery powered sensor 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.



Temperature



Pressure



Humidity



IP67



Bluetooth



Magnetic start-up

Flexible

Flexible Pole
or wall mount

Compact

Very small size:
98 x 58.5 x 39 mm

Simple

Easy installation
and set-up



Accurate

High quality temperature sensor (typ. $\pm 0.2^{\circ}\text{C}$)

Bluetooth



Bluetooth interface for
configuration and **diagnostic**

EGK-LW22TWP00

Applications

- Weather Station
- Smart city
- Smart agriculture
- Greenhouses
- Air conditioning
- Hars environment



Specifications

- CPU ARM Cortex M4
- Class A LoRaWAN® 1.0.2 , EU868
- OTAA/ABP activation
- Temperature -30 ÷ 70°C (typ. $\pm 0.2^{\circ}\text{C}$ within $[0 \div 65^{\circ}\text{C}]$, typ. $\pm 0.5^{\circ}\text{C}$ otherwise)
- Humidity 0% to 100% with following error @25°C:
 - From 0% to 10% $\pm 3\%$
 - From 10% to 90% $\pm 2\%$
 - From 90% to 100% $\pm 3\%$
- Pressure 300...1250hPa ($\pm 1\text{hPa}$)
- Embedded antenna
- Magnetic start-up
- Time interval based or thresholds based uplink
- Primary battery with no harmful substances, replacement possible
- Pole or surface mount
- 5 years life time with SF12 and max Tx power, 48 Uplinks messages per day
- Transmission @ 868 MHZ, 14dBm max.
- BLE 5.0 interface for configuration, data reading and FW upgrade
- Remote configuration
- Storage temperature $-30^{\circ}\text{C} \div +80^{\circ}\text{C}$
- Working temperature $-30^{\circ}\text{C} \div +70^{\circ}\text{C}$
- Dimensions: 98x58.5x39mm
- Protection grade: IP67
- Weight: 95g



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official web page:



cod. EN053W01