



# EGK-LW22CCM

## LoRaWAN®

### Cold Chain Environment Monitoring sensor



This small-sized device is designed for all situations where it is necessary to keep temperature and humidity under control, from catering to medical and pharmaceutical applications, from museum environments to vaults and wine cellars. The multifunction button and the colored LEDs, combined with the Bluetooth connection, guarantee ease of configuration and control.

The device can store up to 3000 sets of historical data records with time stamps, even without connection. Historical data can be retrieved via Bluetooth by LoraTool App or via LoRaWAN® network by uplinks.



Temperature



Humidity



Bluetooth



Multifunction  
button



2xCR123A  
replaceable



Cold Chain



Magnetic  
start-up



IP65



ISO 1725:2017



Data  
logging



#### Flexible

Equipped with  
multifunction button



#### Compact

Very small size:  
64.5 x 58.5 x 32.5 mm



#### Data logging

Up to 3000 sets of  
historical data



#### Bluetooth

Bluetooth interface for  
**configuration and diagnostic**



**FACTORY CALIBRATED**

Temperature sensor complies with ISO 17025:2017

## APPLICATIONS

- Monitoring of ambient temperature and humidity
- Catering and Cold Chain
- large retailers services
- Medical and pharmaceutical storage
- Wine cellars
- Museums and vaults



## SPECIFICATIONS

- CPU ARM Cortex M4
- Class A LoRaWAN® 1.0.2 , EU868
- OTAA/ABP activation
- Temperature  $-40^{\circ}\text{C} \div 70^{\circ}\text{C}$  (typ.  $-30^{\circ}\text{C} \div 70^{\circ}\text{C}$   $\pm 0.48^{\circ}\text{C}$ ,  $-40^{\circ}\text{C} \div -30^{\circ}\text{C} \pm 0-60^{\circ}\text{C}$ ) factory calibrated according to ISO 17025:2017
- Humidity 0% to 100% with following error @25°C:
  - From 0% to 10%  $\pm 4\%$
  - From 10% to 90%  $\pm 2\%$
  - From 90% to 100%  $\pm 4\%$
- Embedded antenna
- Magnetic start-up
- Time interval based or thresholds based
- historical data can be retrieved on request via BLE or LoRaWAN®
- Pushbutton for forcing transmission or Re-Join, configuration (lockable)
- 2xCR123A batteries, replacement possible
- Wall mount with Dual Lock™ fastener
- 4 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
- up to 3000 sets of historical data records
- Storage temperature  $-40^{\circ}\text{C} \div +80^{\circ}\text{C}$
- Working temperature  $-40^{\circ}\text{C} \div +70^{\circ}\text{C}$
- Dimensions: 64.5x58.5x32.5mm
- Protection grade: IP65
- Weight: 95g