LoRaWAN® Cold Chain Environment Monitoring sensor
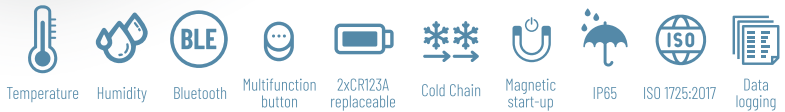
This small-sized device is designed for all situations where it is necessary to keep temperature and humidity under control, from catering to medical and pharmaceutical applications, from museum environments to vaults and wine cellars.

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

Factory calibrated
Temperature sensor complies with ISO 17025:2017

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

EGK-LW22CCM

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°C ÷ 70°C (typ. -30°C ÷ 70°C ±0.48°C, -40°C÷-30°C ±0-60°C)
  factory calibrated according to ISO 17025:2017
• Humidity 0% to 100% with following error @25°C:
  - From 0% to 10% ±4%
  - From 10% to 90% ±2%
  - From 90% to 100% ±4%
• Embedded antenna
• Magnetic start-up
• Time interval based or thresholds based uplink
• 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°C ÷ +80°C
• Working temperature -40°C ÷ +70°C
• Dimensions: 64.5×58.5×32.5mm
• Protection grade: IP65
• Weight: 95g

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official web page:

cod. 09-23-v04