

LPN CM-4

Highlights

- LoRaWAN® Class A Certified
- External temperature and humidity sensor
- 1 x AA LiMnO2 battery
- Internal USB plug for setup & updates



Interfaces

- External SHT31 I2C sensor (Maximum processed range -40°C to 125°C / 0%RH to 100%RH)
- USB (for setup & updates)

Environment

- Protection class IP65
- Operating temperature -25°C to +80°C
- Storage temperature -40°C to 85°C
- Rel. humidity 0% to 95% (not condensing)

General technical data

- 1 x AA LiMnO2 battery
- Status LED
- Housing: Polyamide (PA 6-GB 30)
- Dimensions (L x W x H) 90 x 128 x 53 mm

Reference

- LPN CM-4 technical manual

Norm & Safety

- EN 62368-1

Estimated Battery lifetime

LiMnO2 AA-Batterie, 25 °C operating temperature, unconfirmed messages, 29 bytes payload. Values were estimated, the self-discharge and lifetime of the battery itself were not taken into account.

Spreading Factor TX & Meas Interval	7	8	9	10	11	12
15 Minutes	>10	9.72	6.37	3.89	1.97	1.10
30 Minutes	>10	>10	>10	6.91	3.71	2.13
60 Minutes	>10	>10	>10	>10	6.62	3.98
120 Minutes	>10	>10	>10	>10	>10	7.06
240 Minutes	>10	>10	>10	>10	>10	>10
360 Minutes	>10	>10	>10	>10	>10	>10

Status LED

The CM4 has 1 status LED (orange). The blinking of the LED varies depending on the device mode or status. The table below shows the different LED blinking modes for the orange LED:

LED	Blink duration	Meaning
Orange	1 x 100 ms	LoRa TxRx successful
	2 x 25 ms	LoRa busy or device not joined
	1 x 1 s	CM4 has been initialized
	Permanent	CM4 has no connection to the Sensor

Installation

The battery must be installed by the user.

To guarantee the IP65 Protection the case must be closed with the enclosed cover screw. The screw may be concealed with the rubber screw cover.



Mounting Advices

For outdoor installation please use the proposed mounting directions.

