

CMa11L

Indoor temperature/humidity sensor, LoRaWAN

CMa11L is a LoRaWAN communicating temperature and humidity sensor for indoor use. The sensor is accurate, user-friendly, energy-efficient and has a long communication range. Sensor data is securely transmitted using the LoRaWAN network and configuration is easily performed by using a mobile phone (via NFC).



Technical specification

Mechanics

Protection class	IP30
Dimensions (w x h x d)	80 x 80 x 25 mm
Mounting	Wall-mount
Weight	75 g
Antenna	Internal

Electrical connections

Supply voltage	Battery (AA cell)
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Electrical characteristics

Power consumption (max)	40 mA
Power consumption (sleep mode)	~3 μ A

Environmental characteristics

Operating temperature	-20 °C to +60 °C
Operating humidity	0 to 100 % RH
Operating altitude	0-2000 m
Pollution degree	Degree 2
Usage environment	Indoors
Storage temperature	-40 °C to +85 °C

Sensor characteristics

Measurement range, temperature sensor	-40 °C to +125 °C
Measurement range, humidity sensor	0 to 100 % RH
Temperature sensor, margin of error	\pm 0,2 °C (at 0-90 °C)
Humidity sensor, margin of error	\pm 2 %RH
Resolution	0,01 °C / %RH

Radio characteristics

Frequency	868 MHz
Output power	14 dBm
Receiver sensitivity	-135 dBm

LoRaWAN characteristics

Device class	Class A, bi-directional
LoRA version	1.0.2
Activation	OTAA or ABP
Data rate	DR0-DR5 (250-5470 bit/s)

User interface

Green LED	Status
Red LED	Error
Momentary values	Temperature, humidity, status
Push button	Activation/inactivation/reboot
Configuration	NFC via Elvaco OTC app or downlink data