

# EM500-CO2



## Temperature, Humidity & CO2

Designed for Harsh Environments and Long Battery Life

EM500-CO2 measure

- Co2
- Temperature
- Humidity
- Barometric pressure

EM500-CO2 is designed for harsh environments with its P66 enclosure.

EM500-CO2 is applied for outdoor as well as indoor in a wide range of applications such as warehouses, basements, underground parking, agriculture, forest fire detection, wineries, smart buildings, etc.

EM500-CO2 applies one replaceable 19000 mAh battery, providing up to 10-year battery life.

EM500-CO2 is equipped with NFC for mobile app configuration (Android and iOS).

USB-C and NFC is available for configuration via Notebook.

EM500-CO2 is compliant with standard LoRaWAN<sup>®</sup> gateways and network servers



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### Wireless transmission

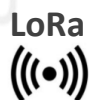
Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-147dBm @300bps
Mode	OTAA/ABP Class A

### CO2 (Carbon Dioxide)

Range	400 - 5000 ppm
Accuracy	±30 ppm or ±3 % of reading
Resolution	1 ppm

### Temperature

Range	-30°C to + 70°C
Accuracy	0°C to + 70°C (+/- 0.3°C), -30°C to 0°C (+/- 0.6°C)
Resolution	0.1°C



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### Humidity

Range	0% to 100% RH
Accuracy	10% to 90% RH (+/- 3%). Below 10% and above 90% RH (+/- 5%)
Resolution	0.5% RH

### Barometric pressure

Range	300 - 1100 hPa (-40°C - 85°C)
Accuracy	±1 hPa
Resolution	0.1 hPa

### Physical characteristics

Power supply	One 19000 mAh Li-SOCL2 battery (ER34615)
Battery life at 10 min interval	>10 years (SF7) ~4 years (SF12) For guideline purposes only!
Operating Temp.	-30°C to +70°C
Relative humidity	0% to 100% non-condensing
Ingress protection	IP66
Dimension	147.9 × 71 × 69.5 mm (5.8 × 2.8 × 2.7 in)
Installation	Pole, wall and DIN-rail mounting