

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[®] gateways and network servers



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Wireless transmission

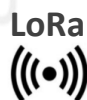
| | |
|-------------|---|
| Technology | LoRaWAN® |
| Frequency | CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923 |
| Tx Power | 16dBm(868)/20dBm(915)/19dBm(470) |
| Sensitivity | -147dBm @300bps |
| Mode | OTAA/ABP Class A |

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 |



Gateway UG65



EM500-C02



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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 |