

EM500-PP



Pressure sensor

Designed for Harsh Environments and Long Battery Life

EM500-PP is designed for pressure measurement in harsh environments with its corrosion resistant and P67 enclosure design.

EM500-PP is applied for measurement of pressure within commercial, public and industrial applications such as pipes, tanks, oil, gas, water leakage, pump monitoring, etc.

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

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

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

EM500-PP is compliant with standard LoRaWAN[®] gateways and network servers



EM500-PP



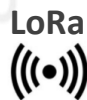
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Wireless transmission

| | |
|-------------|---|
| Technology | LoRaWAN® |
| Frequency | CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923 |
| Tx Power | 16dBm(868)/20dBm(915)/19dBm(470) |
| Sensitivity | -137dBm @300bps |
| Mode | OTAA/ABP Class A |

Pressure measurement

| | |
|---------------------|-----------------------|
| Pressure type | Gauge pressure |
| Range | 0 - 1600 kPa (16 Bar) |
| Accuracy | ± 0.5% FS |
| Resolution | 1 kPa (0.01 Bar) |
| Overload | 150% FS |
| Long-term stability | ± 0.3% FS/year |
| Process connection | G 1/2" Male |



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Physical characteristics

| | |
|---------------------------------|--|
| Cable length | 1.5 m |
| 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 | Transceiver: IP67, Pressure probe: IP65 |
| Dimension | 105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in) |
| Installation | Pole, wall and DIN-rail mounting |

