EM500-PP Pipe Pressure Sensor

APPLICATIONS

- PIPES & TANKS PRESSURE MONITORING
- OIL & GAS MONITORING
- PUMP MONITORING
- WATER LEAK DETECTION

FEATURES

HIGH PRECISION
and corrosion resistance

IP67 WATERPROOF ENCLOSURE
for harsh environment applications

BUILT-IN REPLACEABLE BATTERY
19,000 mAh works for 10 years without replacement

ULTRA-WIDE-DISTANCE
wireless transmission

EQUIPPED WITH NFC
for easily configuration

COMPATIBLE WITH STANDARD
LoRaWAN gateways & network servers

MILESIGHT IOT CLOUD
compatibility

SPECIFICATIONS

Wireless Transmission

Technology	LoRaWAN ®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4

EM500-PP Pipe Pressure Sensor

Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A

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

Operation

Power On & Off	NFC, Power Button (Internal)
Configuration	Mobile App (via NFC) or PC software (via USB Type-C)

Physical & Characteristics

Cable Length	1.5m
Power Supply	19000 mAh Li-SOCL2 battery (ER34615)
Battery Life	10 years (10 min interval)
Operating Temperature	-30°C to +70°C (Transceiver)/-10°C to +70°C (Pipe Pressure Sensor)
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67 (Transceiver) / IP65 (Light Sensor)
Dimension	Transceiver: 105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in) Pipe Sensor: 67.5 × ϕ27 mm (2.7 × ϕ1.1 in)
Installation	Pole, wall or DIN Rail Mounting

Approvals

Regulatory	CE, FCC, RoHS

* Tested under laboratory conditions and for guideline purposes only

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