

Pipe Pressure Sensor

MPC5124-SN



MPC5124-SN is designed for measuring pipe pressure in harsh environments and transmitting data using wireless technology. With this low power consumption technology, MPC5124-SN can work up to 10 years with 19000 mAh battery. Combining with MobiCom Pro gateway and IoT Cloud solution, users can manage all sensor data remotely and visually.

MPC5124-SN is widely used for applications like smart buildings, pipeline and tank systems monitoring, etc.

◆ Features

- High precision and corrosion resistance
- Ultra-wide-distance transmission up to line of sight of 10km
- IP67 waterproof enclosure for harsh environment applications
- Built-in 19000 mAh replaceable battery and work for 10 years without replacement
- Store historical records locally and support retransmission
- Equipped with NFC for easy configuration
- Compliant with standard MobiCom Pro gateways and network servers
- Quick and easy management with MobiCom Pro IoT Cloud solution

◆ Scenarios

- Pipes and tanks pressure monitoring
- Oil & Gas monitoring
- Water leak detection
- Pump monitoring

◆ Specifications

Wireless Transmission	
Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16dBm(868MHz)/20dBm(915MHz)/19dBm(470MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Pressure Type	Vented Gauge
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)
Advanced Feature	Data Storage, Data Retransmission, Data Retrievability, Threshold Alarm, MobiCom Pro D2D Controller
Physical Characteristics	
Cable Length	1.5 m
Power Supply	1 × 19000 mAh ER34615 Li-SOCL ₂ Battery
Battery Life*	10 years (10 min interval, 25°C)
Operating Temperature	Transceiver: -30°C~70°C Pipe Pressure Sensor: -10°C~70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	Transceiver: IP67 Pipe Pressure Sensor: IP65
Dimension	Transceiver: 105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in) Pipe Pressure Sensor: 67.5 × φ27 mm (2.7 × φ1.1 in)
Installation	Pole, wall or DIN Rail Mounting
Approvals	
Regulatory	CE, FCC, ISED, ICASA, Telec

Environmental	RoHS
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* Tested under laboratory conditions and for guideline purposes only.



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