

LINOVISION



IOT-S500PP

Pipe Pressure Sensor Data Sheet



IOT-S500PP is designed for measuring light in harsh environments and transmitting data using LoRaWAN® technology. With this low power consumption technology, IOT-S500PP can work up to 10 years with 19000 mAh battery. Combining with Linovision LoRaWAN® gateway and Linovision IoT Cloud solution, users can manage all sensor data remotely and visually.

IPT-S500PP is widely used for outdoor applications like smart agriculture, urban lighting, etc.

◆ Features

- High precision and corrosion resistance
- Ultra-wide-distance transmission up to line of sight of 10km
- IP66 waterproof enclosure for harsh environment applications
- Built-in 19000 mAh replaceable battery and work for 10 years without replacement
- Equipped with NFC for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Linovision IoT Cloud solution

◆ Applications

- 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
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-147dBm @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 1/4" Female
Operation	
Power On & Off	NFC, power button (Internal)
Configuration	Mobile APP(via NFC)
Physical Characteristics	
Cable Length	1.5 m
Power Supply	19000 mAh Li-SOCL ₂ battery (ER34615)
Battery Life*	4 years (10 min interval, SF12) >10 years (10 min interval, SF7)
Operating Temperature	-30°C to +70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP66(Transceiver)/IP65(Pressure Sensor)
Dimension	105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in)
Installation	Pole, wall or DIN Rail Mounting

* Tested under laboratory conditions and for guideline purposes only.