SPT Series Wireless Pressure Sensors

The SPT series wireless pressure sensors are industrial-grade sensors designed for pressure and temperature monitoring in pipelines or containers. The sensors feature low noise, interference resistance, high accuracy, ultra-low power consumption, and robust durability, making them suitable for long-term use in various harsh industrial environments.

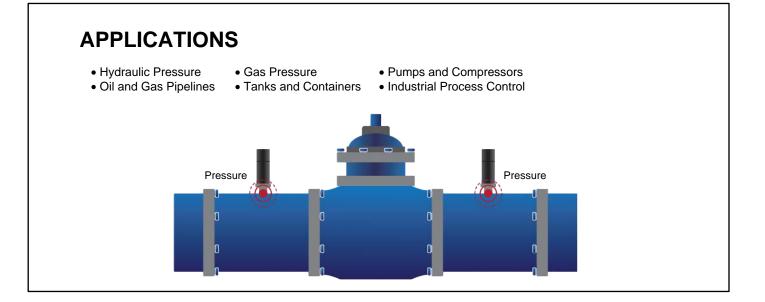
The sensor utilizes advanced glass micro-fusion technology and is equipped with an integrated stainless steel pressure cavity, ensuring complete leak prevention. It offers a minimum overload pressure range of 2 times to 20kpsi of the rated pressure, and a burst pressure range of 3 times to 20kpsi of the rated pressure a high-precision 24-bit digital sampling circuit, enabling accurate and reliable pressure measurements.

SPT series pressure and temperature sensors are easy to install and offer various standard interface options for installation.

The sensor data is transmitted through a wireless sensor network to a remote monitoring platform. Users can remotely monitor the pressure and temperature of the equipment, receive real-time alerts, and continuously track the entire pressure variation process. This ensures the safe operation of the equipment, prevents unplanned downtime, and reduces maintenance time and costs.

Features and Advantages

Accurate	⇔	Low noise, high precision, 24-bit sampling.
Easy-to-install	⇔	Cable-less, compact, lightweight, with multiple standard interface options.
Wireless	⇔	2.4GHz wireless sensor network; capable of transmitting data reliably.
Low-powered	⇔	Built-in battery with 5 years of life for normal usage.
Ruggedized	₽	High overload and burst pressure; waterproof, dustproof, shockproof, corrosion-resistant, and intrinsically safe; suitable for harsh industrial environment.
Flexible	⇔	The sampling and communication periods can be configured according to specific requirements.
Accessible	⇔	Remotely accessible anytime, anywhere; automatic alarm; maintenance free.
Convenient	⇔	Bluetooth compatible and connected via mobile APP.





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Theta. Beyond Sense.

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Specifications					
Product Model	SPT200				
Pressure Precision (Non-linearity/Repeatability)	±0.25% F.S. (Full Scale)				
Overall Precision	±2% F.S.				
Compensated Temperature Range	0~70°C				
Pressure Cycles	1 x 10 ⁶				
Overload Pressure	2 times rated pressure up to 20kpsi				
Burst Pressure	3 times rated pressure up to 20kpsi				
Long-term Stability	±0.25% F.S./year				
Temperature Measurement Range	-40~85°C				
Temperature Precision	±1°C				
Shock Resistance	50g				
Vibration Resistance	±20g				
Data Acquisition Period	1/2/5/10/15/20/30/60/120/240/360/480/720/1440 minutes				
Communication	2.4GHz Wireless Sensor Network (Bluetooth 5.0), line-of-sight range 300m				
Battery	3300mAh Li/SOCL2; replaceable				
Dimensions	41mm x 95mm (D x H)				
Weight	250g				
Operating Temperature	-40~85°C				
Operating Humidity	10%~90% RH				
Enclosure	17-4PH stainless steel and polycarbonate				
Explosion Protection	EX ia IIC T4 Ga				
Ingress Protection	IP67				
Mounting	Threaded				

Range Codes						
Code	Bar	MPa	Psi			
0M7	7	0.7	100			
1M0	10	1.0	150			
1M7	17	1.7	250			
3M5	35	3.5	500			
07M	70	7.0	1000			
10M	100	10	1500			
15M	150	15	2250			
20M	200	20	3000			
35M	350	35	5000			
50M	500	50	7500			
70M	700	70	10000			
100M	1000	100	15000			

	Interface Codes	
Code	Interface Specification	Dimension A
1	G1/4 JIS B2351	0.472 [11.94]
2	M20 x 1.5 mm ISO 6149-2	0.661 [16.8]
3	1/4-18 NPT	0.600 [15.24]
4	7/16-20UNF FEMALE SAE J514 STRAIGHT THREAD WITH INTEGRAL VALVE DEPRESSOR	0.687 [17.5]
5	M14 x 1.5 mm ISO 6149-2	0.433 [11.0]
6	1/8-27 NPT	0.390 [9.91]
7	M12 x 1.5 mm ISO 6149-2	0.433 [11.0]
8	M10 x 1.0 mm ISO 6149-2	0.374 [9.5]
9	G1/4 DIN 3852 FORM E GASKET DIN3869-14 NBR	0.472 [11.94]

