



Model PSC903 Bluetooth Pressure Transducer for Industry and General Purpose Industrial monitoring and data analysis Applications

PSC903 Bluetooth Pressure Sensor was developed for all types of industrial applications. The design is based on high temperature, inorganically bonded, media isolated, technology that offers reliable and accurate measurements under harsh environmental conditions. piezoresistive. The robust construction of the PSC903 provides stable operation when subjected to shock and vibration. Integrated Bluetooth 4.0 transmission features and measure data runtime monitoring, recording and data analysis. Suitable for use in OEM machinery, easy-to-use APP software provide process control, automation, hydraulic pumps, Refrigeration systems, HVAC, etc. State of the art design machined from a solid piece of stainless steel provides a leak-proof, all metal sealed system. There are no O-rings, welds or organics exposed to the pressure digital compensation and temperature correction for high accuracy and stability.



- Gauge & Absolute Pressures
- ASIC Temperature Compensated
- Robust construction to stand high vibrations
- 2.0 % Total Error Band
- Bluetooth 4.0 low power technology
- Wetted Parts: 17-4PH SS (other material available)
- Process Fitting: see column Z
- Electrical Connection: Bluetooth Wireless

- Sample Applications:**
- Process Automation & Control
 - Automotive Test and Monitoring System
 - Test and Measurement Equipment
 - Factory Automation
 - Energy Management
 - Pneumatic Industry
 - Measurement monitoring & data analysis
 - Refrigeration Systems
 - HVAC Systems

Performance (specified @ 25 °C)	
Power Supply	½ AA Lithium battery
Battery Life	Continuous operation 7 days. Every day operates 5 times and each time it works for 5 minutes. Product can be used for over 365 days.
Accuracy (Best fit straight line)	0.75% FS
Stability	0.25%/year
Temperature compensation	-20~ 85 °C
Operating temperature (Media Temperature)	-20~ 85 °C
Storage Temperature	-20~ 85 °C (-40 to 125 °C with battery removed)
Burst Pressure	5 X Full Scale
Proof Pressure	1.5 X Full Scale
Pressure Cycle	1M full scale cycles minimum
Mechanical Vibration	IEC60068-2-6 20g 10-2000Hz
Mechanical Shock	Half-Sine, Peak 50g, 11ms, MIL-STD-202, Method 213B, Condition A
Receiving Distance of Bluetooth data	In open air approximately 10m
Encapsulation protection level	IP65
Update Rate	BLE module reads out the updated data from internal sensor correction ASIC every 500ms, and it transmits the data to the device at 500ms interval.

PSC903 Ordering Model NO.: PSC903-X-Y-Z-X			
X	Y	Z	X
Output Type	Pressure Range	Port Type	Special configuration
H = Bluetooth 4.0	3 = 100 psi 4 = 250 psi 5 = 500 psi 6 = 1000 psi 7 = 2500 psi 8 = 5000 psi ☆ 9 = 10000 psi ☆ A = 15000 psi ☆ B = 20000 psi X = Special	1 = 1/8-27 NPT 2 = 1/4-18 NPT 3 = DIN3852-A-G1/4 4 = DIN3852-E-G1/4 5 = DIN3852-A-M10*1.0 6 = DIN3852-A-M12*1.5 7 = 7/16-20 UNF X = Special	Consult factory

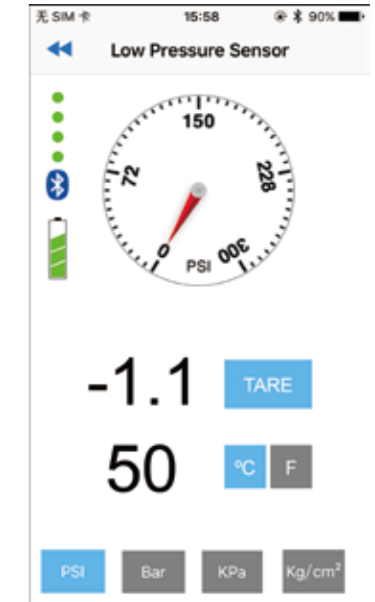
☆ Note: When use into the 10k, 15K and 20K high pressure units. The default 1/8" NPT fitting cannot handle related burst and over pressure. For these pressure ranges, the burst and over pressure need to make a corresponding reduction.



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Radio Spectrum Matter (RSM) Part			
Transmitter Parameters			
Test Item	Test Requirement	Test Method	Limit
Equivalent Isotropic Radiated Power (Radiated)	EN300 328 (2006-10) V1.7.1 Clause 4.3.1	EN300 328 (2006-10) V1.7.1 Clause 5.7.2	-10dBW(100mW) e.i.r.p
Maximum Spectral Power Density	EN300 328 (2006-10) V1.7.1 Clause 4.3.2	EN300 328 (2006-10) V1.7.1 Clause 5.7.3.1	10mW per MHz
Medium Access Protocol	EN300 328 (2006-10) V1.7.1 Clause 4.3.5	--	--
Frequency Range (Radiated)	EN300 328 (2006-10) V1.7.1 Clause 4.3.3	EN300 328 (2006-10) V1.7.1 Clause 5.7.4	F< 2.4GHz and F<2.4835GHz
Transmitter Spurious Emission	EN300 328 (2006-10) V1.7.1 Clause 4.3.6	EN300 328 (2006-10) V1.7.1 Clause 5.7.5	Table 2 & 3
Electromagnetic Susceptibility (EMS)			
Receiver Spurious Emission	EN300 328 (2006-10) V1.7.1 Clause 4.3.7	EN300 328 (2006-10) V1.7.1 Clause 5.7.6	Table 4 & 5

Electromagnetic Compatibility (EMC) Part			
Electromagnetic Interference (EMI)			
Test Item	Test Requirement	Test Method	Limit
Radiated Emission	EN301 489-17 V2.2.1 (2012-09) Clause 7.1	EN301 489-1 V1.9.2 (2011-09) Clause 8.2	Clause 8.2.3
Electromagnetic Susceptibility (EMS)			
ESD (Electrostatic Discharge)	EN301 489-17 V2.2.1 (2012-09) Clause 7.2	EN301 489-1 V1.9.2 (2011-09) Clause 9.3	Clause 9.3.3
Radiated Immunity, 80MHz to 2.7GHz	EN301 489-17 V2.2.1 (2012-09) Clause 7.2	EN301 489-1 V1.9.2 (2011-09) Clause 9.2	Clause 9.2.3



The App clearly defines the data stream, pressure service, battery service and temperature service etc. for OEM customers to interface directly with custom equipment.

Structure reference (Unit: Inch[mm])

