

PCS Stainless Pressure Sensor User Guide

Pressure Ranges

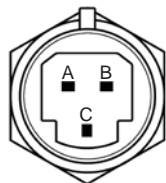
Part Number	Pressure Range
SNS-1003	0-100 PSIG
SNS-1004	0-250 PSIG
SNS-1005	0-1000 PSIG
SNS-1007	0-3000 PSIG

General Specifications

Characteristic	Rating
Input Voltage	5 VDC
Output Voltage	0.5 VDC @ 0 PSI, Linear to 4.5 VDC @ Rated Pressure
Over Pressure	2 x Rated Pressure
Burst Pressure	5 x Rated Pressure or 20,000 PSI, whichever is less
Accuracy	< \pm 1% FS BFLS (combined linearity, hysteresis and repeatability)
Zero Offset	\pm 2% of FS
Pressure Port	1/8" NPT Male

Electrical Connection

The mating connection kit is available as Part# WRE-8006. The pinout of the pressure sensor is shown below.



Pin	Function	Wire Color
A	Ground	Black / White
B	+5V Supply	Red / White
C	Output (0.5 to 4.5 VDC)	Yellow / Red

*All inputs are protected against EMI.

Environmental Specifications

Characteristic	Rating
Operating Temperature Range	-4 to 185°F (-20 to 85°C)
Compensated Temperature Range	32 to 131°F (0 to 55°C)
Thermal Zero Shift	< \pm 2% of FS
Thermal Span Shift	< \pm 2% of FS
Long Term Stability (1 Year)	\pm 0.25% of FS, Typical
Pressure Cycles	> 100,000,000 Full Pressure Cycles
Fluid Capability	Any gas or liquid compatible with 17-4PH stainless steel

The enclosed pressure transducer has been manufactured, tested, and inspected in accordance with all applicable procedures and practices as established in the registered ISO 9000 quality system.

WARNING: Do not touch the diaphragm in the pressure port.

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