

# Stainless Pressure Sensor

Part # SNS-1003, SNS-1004, SNS-1005, SNS-1006



## Pressure Ranges

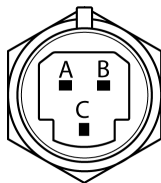
Part Number	Pressure Range
SNS-1003	0-100 PSIG
SNS-1004	0-250 PSIG
SNS-1005	0-1000 PSIG
SNS-1006	0-2500 PSIG

## 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 mate to the pressure sensor is a Packard 3-way connector (part #CON-2328) with terminals (part #CON-2329). 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 w/ white stripe
B	+5V Supply	Red w/ white stripe
C	Output (0.5 to 4.5 VDC)	Yellow w/ red stripe

All inputs 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.**