MODEL SA • PRESSURE TRANSDUCER

APPLICATIONS

FREON AND AMMONIA REFRIGERATION SYSTEMS

HYDRAULIC CONTROLS

AGRICULTURAL SPRAYERS AND DUSTERS

COMPRESSORS

ENGINE CONTROLS

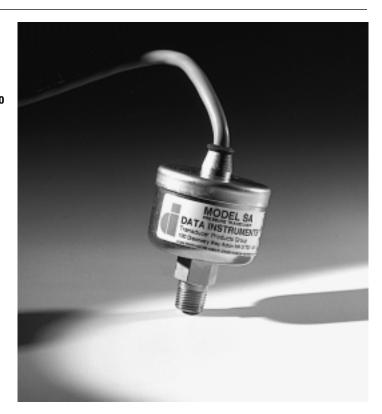
ENERGY MANAGEMENT SYSTEMS

ROBOTICS

AUTOMATED MACHINING

PNEUMATIC SYSTEMS The SA pressure transducer has a water resistant, stainless steel case for complete protection from harsh environments. Internal hermetic sealing is used to provide measurement of absolute pressures (PSIA) or pressures referenced to a sealed chamber (PSIS).

Underwriters Laboratories has approved the SA as a component in float and pressure-operated motor controllers (File #E93356). The SA produces a high level voltage output of 1-6V from an unregulated supply. It is fully calibrated and compensated prior to shipment, and is field interchangeable.



FEATURES

- · Rugged stainless steel case
- PSIS and PSIA models
- Ranges to 7100 PSIS
- RFI/EMI protection
- Reverse polarity protection

BENEFITS

- For use in industrial environments
- Sealed construction
- Broad range of applications
- · For use in high noise environments
- Installation safety

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TECHNICAL SPECIFICATIONS

RANGE

0-15, 25 PSIG	0-50 PSIG 0-100, 200, 300 PSIS	0-500, 1000, 2000, 3000, 5000, 7112 PSIS
(0-1 2 bar g)	(0-3.5 bar g) (0-7, 14, 21 bar s)	(0-35, 70, 207, 345, 490 bar s)
2 x rated range	2 x rated range	1.5 x rated range
20 x rated range	10 x rated range	5 x rated range 25,000 PSI, (1725 bar) max
Brazed assembly of 300 series stainless steel		
50 g's peak (5 milliseconds)		
Meets MIL-STD-810-C, Figure 514.2-5, Curve AK, 20.7 g rms minimum		
Less than 3 oz without cable		
5 ± 0.1 Vdc @ 25°C (1-6V)		
$1.0 \pm 0.15 \text{ Vdc} @ 25^{\circ}\text{C} (1.0 \pm 0.20 \text{ Vdc for } 100, 200 \text{ PSIA})$		
< 500 PSI 9 to 24 Vdc @ 15 mA nominal 500 PSI 9 to 24 Vdc @ 20 mA nominal		
Source: 10 mA Sink: 5 mA		
Yes		
1000 (nominal)		
3 ft (0.91 m) shielded 3-conductor cable		
\pm 1% FSO best fit straight line including effects of nonlinearity, hysteresis and nonrepeatability		
-40° to 105°C (-40 to 221°F) Hirschmann -40° to 90°C (40° to 194°F)		
-1° to 85°C (30° to 185°F)		
Less than \pm 1% or any 55°C (100°F) change within the compensated range		
	25 PSIG (0-1 2 bar g) 2 x rated range 20 x rated range Brazed ass 50 Meets f Cur Le 5 1.0 ± 0.15 Vdc © < 500 PS 500 PS 4 Hirschm Less thar chang Less chang Typically less tha	25 PSIG 200, 300 PSIS (0-1 2 bar g) (0-3.5 bar g)

OPTIONS

- Hirschmann connector, including mate
- PTIH Bendix connector, mate not included
- Absolute pressure version available in 0-15, 25, 50, 100 and 200.
- CE versions available

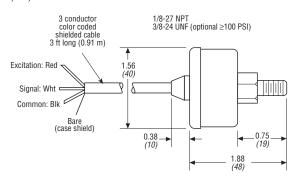


SA with Hirschmann connector

DIMENSIONS

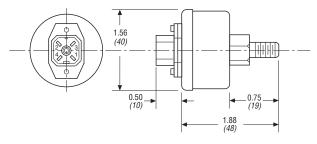
xx.xx = inches(xx.x) = mm

SA with Cable



1/2 Hex for 1/8-27 NPT port 9/16 Hex for 3/8-24 UNF port

SA with Hirschmann Connector



PIN AND WIRE CODES

Wire Color Code	Hirschmann Pin Code	Function
Red	4	+ Excitation
White or Brown	2	Signal Output
Black	3	Common
Bare	NC	Case Shield

Not

All specifications are measured at 25°C and rated excitation unless otherwise stated