# Honeywell

MODEL SA PRESSURE TRANSDUCER

USA

Acton MA 017

#### **APPLICATIONS**

FREON & AMMONIA REFRIGERATION SYSTEMS

> HYDRAULIC CONTROLS

AGRICULTURAL SPRAYERS AND DUSTERS

COMPRESSORS • ENGINE

CONTROLS

ENERGY MANAGEMENT SYSTEMS

ROBOTICS

AUTOMATED MACHINING • PNEUMATIC SYSTEMS

#### **FEATURES**

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

## **MODEL SA** • HARSH DUTY PRESSURE TRANSDUCER

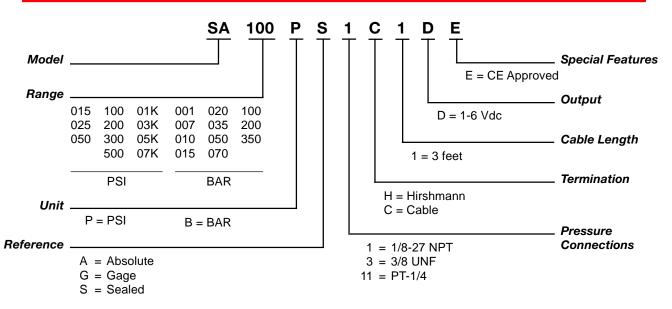
The harsh duty SA pressure transducer has a water resistant, stainless steel case for complete protection from harsh environments. Internal hermetic sealing is used to provide measurement of absolute pressures (PSIA) or pressures referenced to a sealed chamber (PSIS).

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 output from an unregulated supply. It is fully calibrated and compensated prior to shipment, and is field interchangeable.



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

#### HOW TO ORDER



Note: Not all combinations are available. Minimum quantity orders apply. Contact the factory for more details.

#### **TECHNICAL SPECIFICATIONS**

#### RANGES

PHYSICAL

**Proof Pressure** 

**Burst Pressure** 

with Media

Weight

Shock

Vibration

ELECTRICAL\*

Zero Output

Excitation

Full Scale Output\*

Supply Current

Source (nominal)

Sink (nominal)

Material in Contact

**ENVIRONMENTAL\*** 

0-15, 25, 50 PSIG 0-15,25, 50, 100, 200 PSIA 0-500, 1000, 2000, 3000, 5000 PSIS 0-1, 7, 10, 15, 20, 35, 50, 70, 100, 200, 350 Bar

300 series stainless steel,

braze compound

Less than 3 oz. without cable

50 g's peak (5 ms), 100 g's peak (11 ms)

Meets MIL-STD 810C, Figure 514-5, Curve AK,

Time Schedule II Random Vibration Test

(Overall g rms = 20.7 minimum)

**Ratiometric Voltage** 

 $1.0\pm0.15~Vdc$ 

 $5.0 \pm 0.1$  Vdc (1.0 - 6.0V)

9-20 Vdc

15.0 mA typical (>500 PSI 20.0 mA)

< 500 microseconds

≥ 500 psi

1.5 X rated range

≥ 500 psi

5 X rated range

(30kpsi max)

< 500 psi

2 X rated range

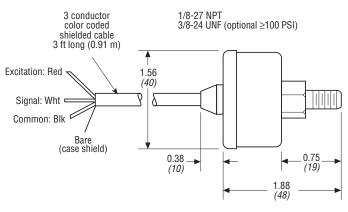
< 500 psi

10 X rated range

### DIMENSIONS

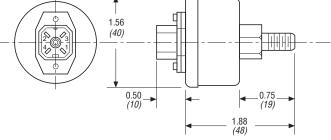
xx.xx = inches(xx.x) = mm

#### 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

Fund	ction	Wire Color Code	Hirschmann Pin Code	
+ Exc	itation	Red	4	
Signa	l Output	White / Brown	2	
Cor	nmon	Black	3	
Case	Shield	Bare	NC	

#### WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use

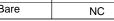
While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

	Item #	1063100	M.G.	3/01	Rev. A
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www.honeywell.com/sensing/

## Honeywell



10.0 mA 5.0 mA

PERFORMANCE\* **Response Time** 

EMI/RFI	(10v/m radiated 150kHz-1gHz)		
Electrical Connectio	n 3ft sheilded 3-conductor cable 22 AWG Color coded		
Accuracy	±1.0% F.S.O. best fit straight line, Includes: non-linearity, hysteresis, non-repeatability. Thermal errors are not included.		
Operating Temperature Range	-55° to 105°C (-48° to 221°F)		
Compensated Temperature Range	-1° to 85°C (30° to 185°F)		
Thermal Effect on Zero	Less than $\pm 1.0\%$ F.S.O. for any 55°C (100°F) change within the compensated range		
Thermal Effect on Full Scale	Less than $\pm$ 1.0% for any 55°C (100°F) change within the compensated range		

\*Note: All specifications are measured at 25°C and rated excitation unless otherwise stated.