#### **APPLICATIONS**

PRESSURE TRANSDUCERS

'SMART' VALVES

SOLID STATE PRESSURE SWITCHES

> PRESSURE TRANSMITTERS

# Model SR • Pressure sensor

The Model SR is intended for OEM's requiring a small pressure sensor with high pressure capability and superior corrosion resistance. Constructed of a brazed assembly of 300 series stainless steels, the SR can tolerate a wide variety of corrosive media without risk of leaking.

The SR's design provides high working pressures and high overload and burst pressures at no extra cost. The sensing elements are isolated from the media without using oil-filled isolation technologies.

Unlike other low cost sensors, the SR's output is compensated for changes in temperature.



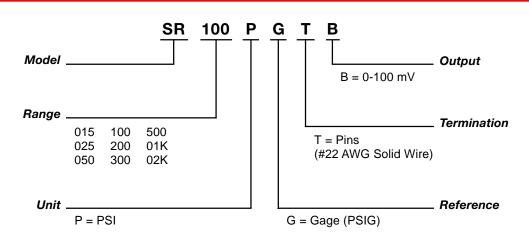
# **FEATURES**

- High impedance silicon strain gages
- Stainless steel
- 0-15 to 0-2000 psi
- Constant current excitation
- Temperature compensated

# BENEFIT

- Low current draw allows use with batteries
- Can be used with corrosive media
- Wide range of pressure measurements
- Works with readily available 4-20 mA amplifier IC's
- Easier, less expensive to use

# HOW TO ORDER



# **TECHNICAL SPECIFICATIONS**

# RANGE

0-15, 25, 50, 100, 0-500, 1000, 2000 psig 200, 300 psig

(0-1, 2, 3, 7, 14, 20 bar g) (0-35, 70, 140 bar g) (bar values approximate) (bar values approximate)

### **PHYSICAL**

Proof Pressure	2 X rated range without damage	1.5 X rated range without damage
Burst Pressure	10 X rated range without bursting	5 X rated range without bursting

Material in Contact > 500 psi, 304 SS <=500 psi, brazed assy of 300 SS with Media Shock Resistance 50 g's peak (5 milliseconds)

Vibration Meets MIL-STD 810B, Figure 514-4, Curve AP, Resistance Time Schedule II, Random Vibration Test (Overall g rms - 46.3 min)

Weight less than 1 oz (approx. 20 gm)

ELECTRICAL			
Span	25 mV/mA (minimum) at 77° F (25° C)		
Excitation Current	4 mA, 5 Vdc max		
Zero Balance	±5% F.S. at 77 ° F (25 ° C)		
Input Resistance	1000 ohms (nominal)		
Output Resistance	6000 ohms (nominal)		
Insulation Resistance	e 1K megohms at 250 Vdc		
Electrical Connection	n four #22 AWG solid wires		

### **PERFORMANCE**

±1% span from best fit straight line including effects of Accuracy non-linearity, hysteresis and repeatability

Operating Temperature Range	-40° to 212° F (-40° to 100° C)	
Compensated Temperature Range	32 ° to 167 ° F (0° to 75 ° C)	

Thermal Effect Less than ±1% span -any 90° F (50° C) On Zero change within the compensated temperature range

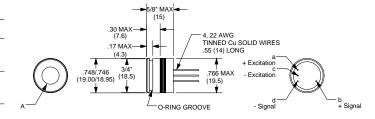
Thermal Effect Less than ±1% span -any 90° F (50° C) On Span change within the compensated temperature range

NOTES: (1) All specifications are measured at 25°C and rated excitation unless otherwise specified.

- (2) Includes standard Viton O-ring.
- (3) Capsule only. Does not include mounting device.

# **DIMENSIONS**

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



# PRESSURE RANGE (PSI)

Pressure Range (PSI)	* A				
	Bore Dia.	O-Ring	Sealing Depth**	Cavity Depth	
15-500	.500 (12.70)	2-012	.21 (5.33)	.22 (5.58)	
1000-1500	.375 (9.52)	2-010	.21 (5.33)	.22 (5.58)	
2000	.375 (9.52)	2-010	.21 (5.33)	.22 (5.58)	

CAUTION: Contact with sensing surface at bottom of cavity will affect accuracy and may cause damage. The O-ring groove on 2000 psi unit is wider to accommodate a backup ring behind the O-ring. All dimensions in inches (mm).

#### 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.

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**Honeywell** 

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