**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**

```
Model  SR  100  P  G  T  B
Range   015  100  500
        025  200  01K
        050  300  02K
Unit    P = PSI
Output  B = 0-100 mV
Termination  T = Pins (#22 AWG Solid Wire)
Reference    G = Gage (PSIG)
```

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

RANGE

0-15, 25, 50, 100, 200, 300 psig
(0-1, 2, 3, 7, 14, 20 bar g)
(0-35, 70, 140 bar g)
(bar values approximate) (bar values approximate)

PRESSURE RANGE (PSI)

Pressure Range (PSI)

<table>
<thead>
<tr>
<th>Pressure Range (PSI)</th>
<th>Bore Dia.</th>
<th>O-Ring</th>
<th>Sealing Depth**</th>
<th>Cavity Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-500</td>
<td>.500</td>
<td>2-012</td>
<td>.21 (5.33)</td>
<td>.22 (5.58)</td>
</tr>
<tr>
<td>1000-1500</td>
<td>.375</td>
<td>2-010</td>
<td>.21 (5.33)</td>
<td>.22 (5.58)</td>
</tr>
<tr>
<td>2000</td>
<td>.375</td>
<td>2-010</td>
<td>.21 (5.33)</td>
<td>.22 (5.58)</td>
</tr>
</tbody>
</table>

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).

PHYSICAL

Proof Pressure 2 X rated range without damage
Burst Pressure 10 X rated range without bursting
Material in Contact > 500 psi, 304 SS with Media <=500 psi, brazed assy of 300 SS
Shock Resistance 50 g’s peak (5 milliseconds)
Vibration Meets MIL-STD 810B, Figure 514-4, Curve AP
Resistances Time Schedule II, Random Vibration Test (Overall g rms ~ 4.83 min)
Weight less than 1 oz (approx. 20 g)

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°C (25°C)
Input Resistance 1000 ohms (nominal)
Output Resistance 6000 ohms (nominal)
Insulation Resistance 1K megohms at 250 Vdc
Electrical Connection four #22 AWG solid wires

PERFORMANCE

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

Operating Temperature Range -40°C to 212°C
Compensated Temperature Range 32°C to 167°C
Thermal Effect Less than ±1% span - any 90°C F (50°C 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.

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 # 1123700 M.G. 3/01

Sensing and Control
Honeywell
100 Discovery Way
Acton, MA 01720 USA
Tel: (877) 384-1300; Fax: (978) 263-0630

www.honeywell.com/sensing/