

Sensit HPS-A Series 4-20mA Output Pressure Transmitter

Two wire, 4-20mA output transmitters offering superb chemical and corrosion resistance. Gauge or Absolute pressure is detected using a four active arm strain gauge bridge sensor, fused to a high-purity ceramic diaphragm. Available in three classes of accuracy and compensation specified below, with ranges from 100mbar to 600 bar or scaled to customer requirements.

- Stainless Steel housing
- Rugged construction
- Excellent linearity
- Excellent long term stability
- Wide temperature range
- Intrinsically safe versions available

CLASS A HIGH SPECIFICATION TRANSMITTER

Output Span	16mA ±0.5%
Output Zero	4mA ±0.5% of span
Non Linearity, Hysteresis & Repeatability (NLH)	±0.1% of span (best fit straight line)
Compensated Temp Range	-20°C to 125°C
Operating Temp Range	-20°C to 125°C
Thermal Zero Shift	0 to 100°C, ±0.01% of span / °C <0°C & >100°C, ±0.015% span / °C
Thermal Span Shift	±0.015% reading / °C typical
Long Term Stability	0.1% / 12 months typical
Power Supply	10 to 32Vdc
Loop Resistance	1.1k Ω max @32Vdc supply

CLASS B INDUSTRIAL TRANSMITTER

Output Span	16mA ±1%
Output Zero	4mA ±1% of span
Non Linearity, Hysteresis & Repeatability (NLH)	±0.15% of span (best fit straight line)
Compensated Temp Range	-0°C to 100°C
Operating Temp Range	-20°C to 125°C
Thermal Zero Shift	±0.015% span / °C
Thermal Span Shift	±0.015% reading / °C typical
Long Term Stability	0.1% / 12 months typical
Power Supply	10 to 32Vdc
Loop Resistance	1.1k Ω max @32Vdc supply

CLASS C GENERAL PURPOSE/OEM TRANSMITTER

Output Span	16mA ±1%
Output Zero	4mA ±1% of span
Non Linearity, Hysteresis & Repeatability (NLH)	±0.25% of span (best fit straight line)
Compensated Temp Range	-0°C to 80°C
Operating Temp Range	-20°C to 125°C
Thermal Zero Shift	±0.04% span / °C
Thermal Span Shift	±0.015% reading / °C typical
Long Term Stability	0.1% / 12 months typical
Power Supply	10 to 32Vdc
Loop Resistance	1.1k Ω max @32Vdc supply

OPTIONS

Pressure Connection
G1/4" BSP male or female
G1/2" BSP male
1/4" NPT male or female
1/2" NPT male
Others available on request

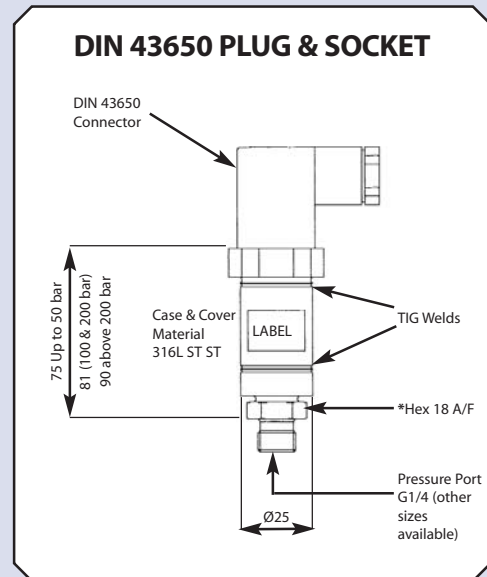
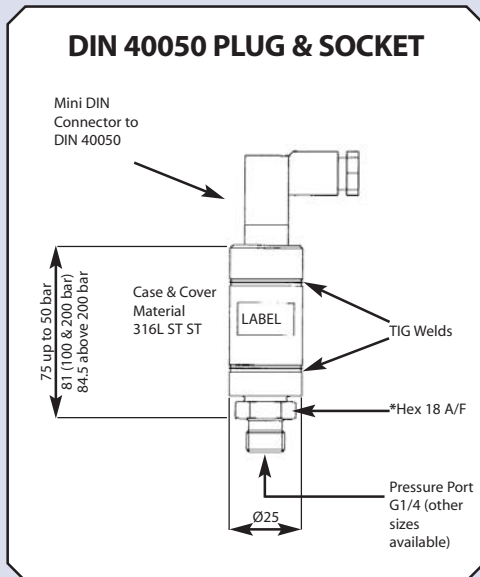
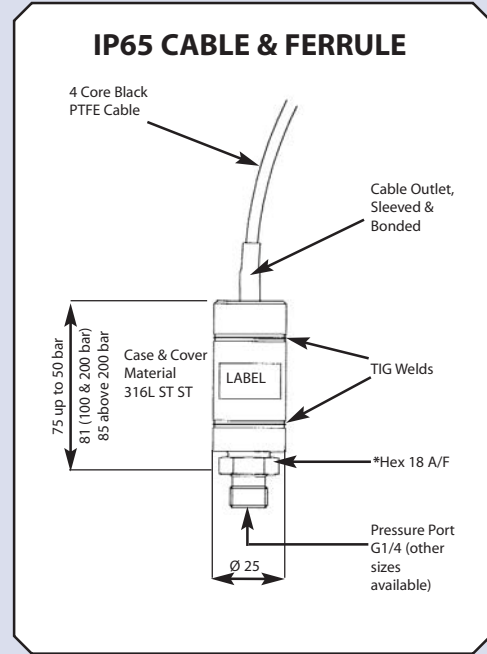
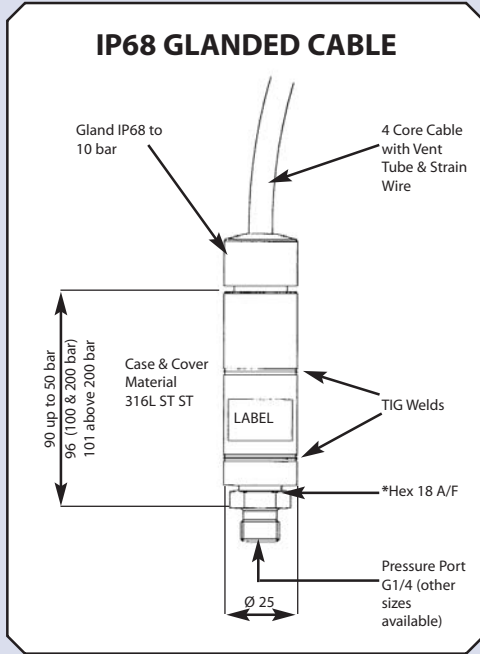
Electrical Connection
IP65 mini plug & socket
IP65 large plug & socket
IP65 cable & ferrule
IP68 glanded cable
Others available on request

Housing Material
316L Stainless Steel
Others available on request

Intrinsically Safe
EEx ia IIC T4



DIMENSIONS (mm)



* Note: >200 bar, Hexagon 27 A/F and diameter 27

SENSIT pressure transducers are also available with the following outputs:

- Voltage : 0-5V, 0-10V or 1-5V
- Active mV : 0-100mV or 0-200mV
- mA : 4-20mA

For level or depth measurement, use the **NEW TRIDENT Series of submersible pressure transducers**, or if your application requires something special, contact sales. If we do not already have the solution our OEM design team are ready to help.

Every effort has been made during the preparation of this document to ensure the accuracy of statements and specifications. However, we do not accept liability for damage, injury, loss or expense caused by errors or omissions made. We reserve the right to withdraw or amend products or documentation without notice.

Head Office: 2 Downgate Drive, Sheffield, S4 8BT, England
Tel: +44(0)114 244 2521 Fax: +44(0)114 243 4838



1-4 Campbell Court, Bramley, Tadley, Hampshire, RG26 5EG, England
Tel: +44(0)1256 884901 Fax: +44(0)1256 882986
email: sales@roxspur.com www.roxspur.com



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