

HPS "A" Pressure Transducer

HPS - A

VOLTAGE OUTPUT

Three-wire, Voltage output transducer 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 stability 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

CLASS A HIGH SPECIFICATION TRANSMITTER

Output Span	5V $\pm 0.5\%$
Output Zero	1V $\pm 0.5\%$ of span
Non Linearity, Hysteresis & Repeatability (NLH)	$\pm 0.1\%$ 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, $\pm 0.01\%$ of span / °C <0°C & >100°C, $\pm 0.015\%$ of span / °C
Thermal Span Shift	$\pm 0.015\%$ / °C typical
Long Term Stability	0.1% / 12 months typical
Power Supply	10 to 32VDC unregulated

CLASS B INDUSTRIAL TRANSMITTER

Output Span	5V $\pm 1\%$
Output Zero	1V $\pm 1\%$ of span
Non Linearity, Hysteresis & Repeatability (NLH)	$\pm 0.15\%$ 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	$\pm 0.015\%$ of span / °C
Thermal Span Shift	$\pm 0.015\%$ / °C typical
Long Term Stability	0.1% / 12 months typical
Power Supply	10 to 32VDC unregulated

CLASS C GENERAL PURPOSE/OEM TRANSMITTER

Output Span	5V $\pm 1\%$
Output Zero	1V $\pm 1\%$ of span
Non Linearity, Hysteresis & Repeatability (NLH)	$\pm 0.25\%$ 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	$\pm 0.04\%$ of span / °C
Thermal Span Shift	$\pm 0.015\%$ / °C typical
Long Term Stability	0.1% / 12 months typical
Power Supply	10 to 32VDC unregulated

OPTIONS

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

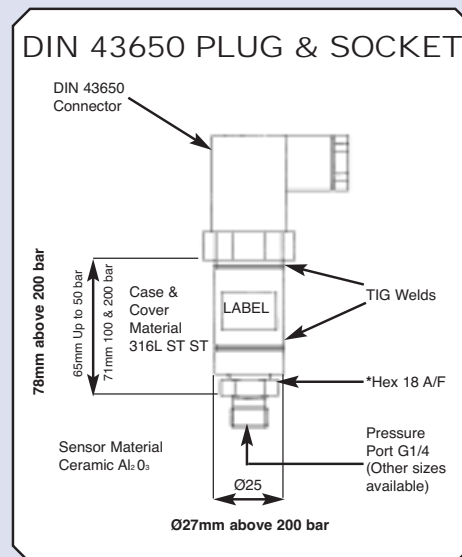
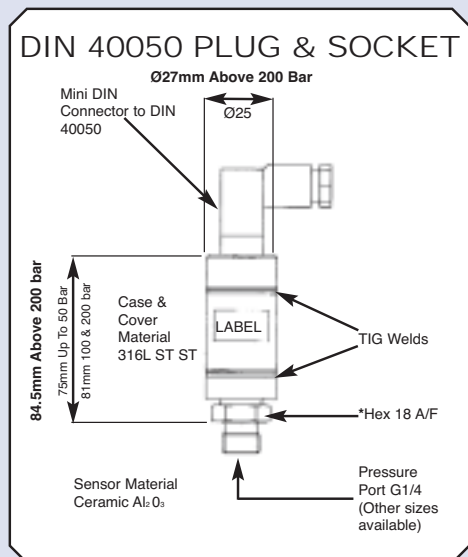
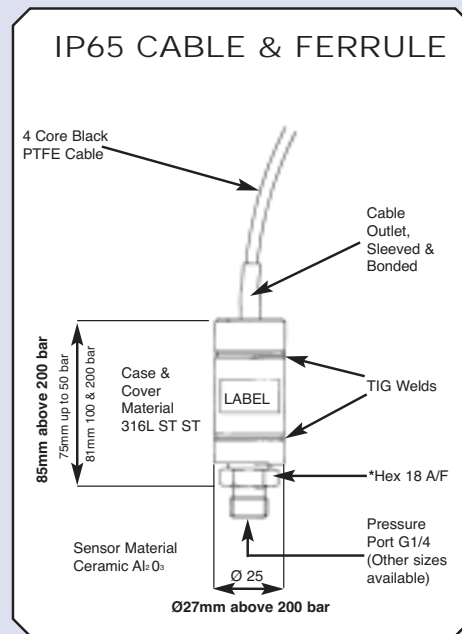
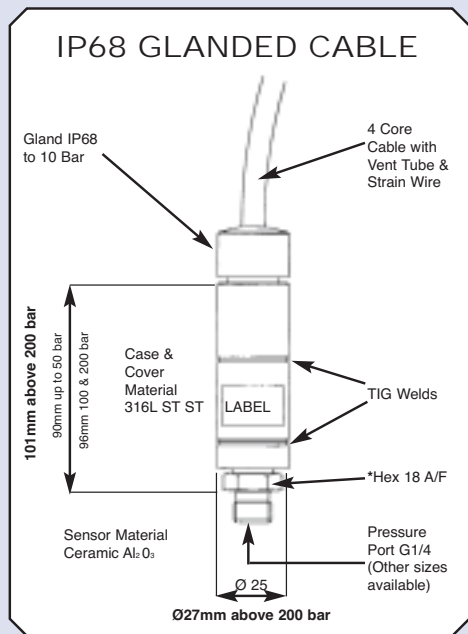
Electrical Connection
 IP65 Mini plug & socket
 IP65 Large plug & socket
 IP65 cable & ferrule
 IP68 glanded cable
 Others available on request

Housing Material
 316L Stainless Steel
 Others available on request

Electrical Output
 0 - 10V*, 0 - 5V
 Others available on request
 *Min Supply:13V



DIMENSIONS



* Note: >200 Bar, Hexagon 27 A/F

SENSIT pressure transducers are also available with the following outputs:

- Current : 4-20mA
- Active mV : 0-100mV or 0-200mV

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 don't 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 Downton Drive, Sheffield, S4 8BT, England
Tel: +44(0)114 244 2521 Fax: +44(0)114 243 4838



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RMC Roxspur
Measurement
& Control Ltd

10 Campbell Court, Bramley, Tadley, Hampshire, RG26 5EG, England
Tel: +44(0)1256 884901 Fax: +44(0)1256 882986
email: sales@roxspurmc.co.uk www.controlsdirect.com



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