

# PRESSURE

## 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

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

### CLASS B INDUSTRIAL TRANSMITTER

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

### CLASS C GENERAL PURPOSE/OEM TRANSMITTER

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

### 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

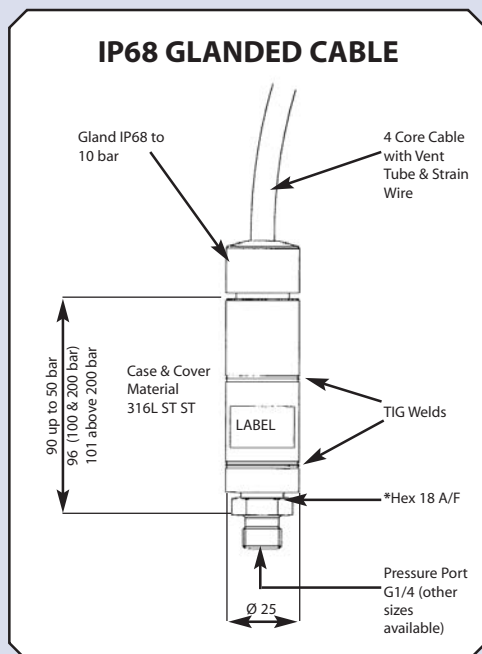
**Housing Material**  
316L Stainless Steel  
Others available on request

**Intrinsically Safe**  
Ex ia IIC T4

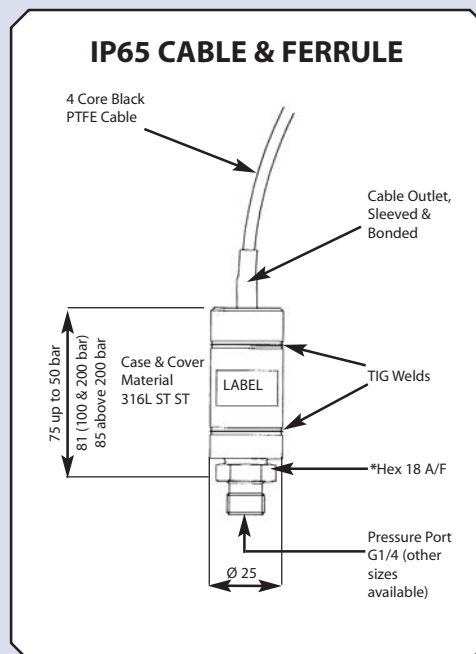


## DIMENSIONS

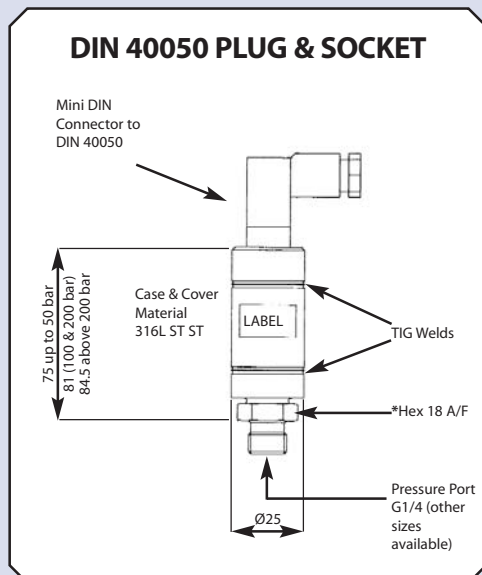
### IP68 GLANDED CABLE



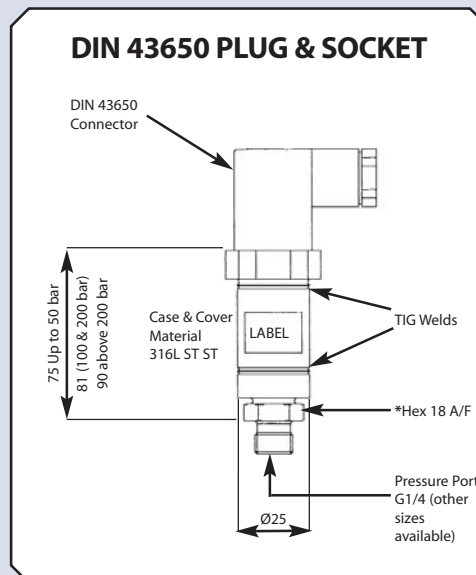
### IP65 CABLE & FERRULE



### DIN 40050 PLUG & SOCKET



### DIN 43650 PLUG & SOCKET



\* 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.

## MECHANICAL SPECIFICATION

Safe Over-range Pressure	1.5 x rated range
Burst Pressure	3 x rated range minimum
Wetted Materials	Stainless steel, alumina ceramic, Viton (other O-ring materials available)



CERTIFICATE NO. 22358