

# Pressure Sensit HPS - C Series Rationalised mV Output Pressure Transducer

**Product Data Sheet DS2808** 

Four wire, ratiometric, mV 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
- Rationalised output

# **Class A High Specification Transducer**

Output Span
Output Zero
Non Linearity, Hysteresis &
Repeatability (NLH)

Compensated Temp Range Operating Temp Range Thermal Zero Shift

Thermal Span Shift Long Term Stability Power Supply Dependent on range. ±1mV 0mV ±0.1mV/V

±0.2% of span (best fit straight line) -20°C to 125°C

-20°C to 125°C -20°C to 125°C

<0 to 100°C, ±0.01% span /°C <0°C & >100°C, ±0.015% span /°C ±0.015% reading/°C typical 0.1% / 12 months typical 2-10Vdc regulated

## Class B Industrial Transducer

Output Span
Output Zero
Non Linearity.

Non Linearity, Hysteresis & Repeatability (NLH) Compensated Temp Range Operating Temp Range Thermal Zero Shift Thermal Span Shift Long Term Stability Power Supply Dependent on range ±1mV 0mV ±0.1mV/V

±0.2% of span (best fit straight line) 0°C to 100°C

0°C to 100°C -20°C to 125°C ±0.015% span /°C ±0.015% reading/°C typical 0.1% / 12 months typical 2-10Vdc regulated

# Class C General Purpose/OEM Transducer

Output Span
Output Zero
Non Linearity, Hysteresis &
Repeatability (NLH)

Compensated Temp Range Operating Temp Range Thermal Zero Shift Thermal Span Shift

Long Term Stability Power Supply Dependent on range ±1mV 0mV ±0.1mV/V

 $\pm 0.25\%$  of span (best fit straight line) 0°C to 80°C

-20°C to 125°C ±0.04% span /°C ±0.015% reading /°C typical 0.1% / 12 months typical

2-10Vdc regulated

### **Options**

#### **Pressure Connections**

G¼" BSP male or female G½" BSP male ¼" NPT male or female ½" 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

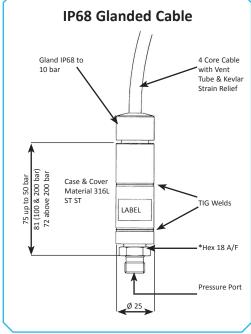
#### **Housing Material**

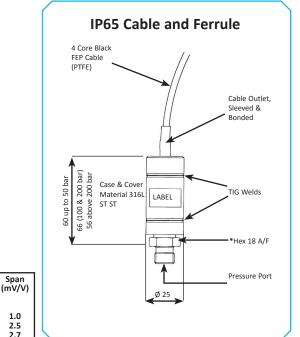
316L Stainless Steel Others available on request



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# **Dimensions (mm)**





# **DIN 40050 Plug and Socket** Connector IP65 rated to BS EN 60 up to 50 bar 66 (100 & 200 bar) 56 above 200 bar Case & Cover Material 316L LABEL ST ST IG Welds \*Hex 18 A/F Pressure Port

DIN 43650 Plug and Socket		
DIN 43650 Connector		
60 up to 50 bar	66 (100 & 200 bar) 61 above 200 bar	Case & Cover Material 316L LABEL ST ST   *Hex 18 A/F  Pressure Port

#### 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

#### **Mechanical Specification**

Safe Over-range Pressure Burst Pressure Wetted Materials

1.5 x rated range 3 x rated range minimum Stainless steel, alumina ceramic, Viton (other O-ring materials available)

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.

Sensor Range (bar)

0.4

400 600

1.0 2.5 2.7

3.0 2.7 3.2 4.2 4.5 4.5 4.5 4.5

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