# **HPS-A Series 4-20mA Output Pressure Transmitter**



# DS2805

#### Features:

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



### **Description:**

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.

# **CLASS A** HIGH SPECIFICATION TRANSMITTER

**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 Loop Resistance** 

16mA +0.5% 4mA ±0.5% of span

±0.1% of span (best fit straight line) -20°C to 125°C -20°C to 125°C 0 to  $100^{\circ}$ C,  $\pm 0.01\%$  of span /  $^{\circ}$ C

<0°C & >100°C, ±0.015% span / °C ±0.015% reading/°C typical 0.1% / 12 months typical 10 to 32Vdc

1.1k Ω max @32Vdc supply

# CLASS C GENERAL PURPOSE/OEM TRANSMITTER

**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 Loop Resistance** 

16mA +1% 4mA ±1% of span

±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 10 to 32Vdc

1.1k Ω max @32Vdc supply

# **CLASS B** INDUSTRIAL TRANSMITTER

**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 **Loop Resistance** 

16mA ±1% 4mA ±1% of span

±0.15% of span (best fit straight line)

-0°C to 100°C -20°C to 125°C ±0.015% span / °C ±0.015% reading/ °C typical 0.1% / 12 months typical 10 to 32Vdc

1.1k Ω max @32Vdc supply





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#### **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

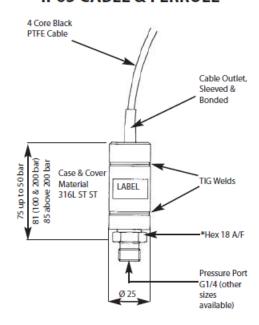
### **Intrinsically Safe**

EEx ia IIC T4

# **IP68 GLANDED CABLE**

# Gland IP68 to 4 Core Cable 10 bar with Vent Tube & Strain 96 (100 & 200 bar) 101 above 200 bar 90 up to 50 bar Case & Cover Material 316L ST ST TIG Welds LABEL \*Hex 18 A/F Pressure Port G1/4 (other sizes available)

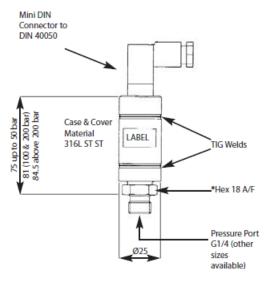
## **IP65 CABLE & FERRULE**



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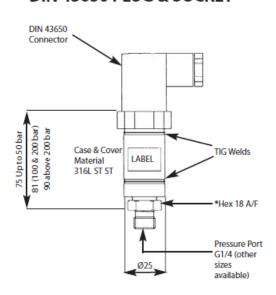


#### DIN 40050 PLUG & SOCKET



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

## **DIN 43650 PLUG & SOCKET**



#### SENSIT pressure transducers are also available with the following outputs:

Voltage: 0-5V, 0-10V or 1-5VActive mV: 0-100mV or 0-200mV

mA: 4-20mA

#### **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)

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.