

Pressure Sensit HPS-A Series Active mV Output Pressure Transducer

Product Data Sheet DS2807

Four wire, millivolt output transducers with integral voltage regulator and amplifier 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 Transducer

Output Span Output Zero Non Linearity, Hysteresis & Repeatability (NLH) Compensated Temp Range Operating Temp Range Thermal Zero Shift

Thermal Zero Shift Thermal Span Shift Long Term Stability

Power Supply

200mV ±0.5% 0mV ±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°C, ±0.01% of span/°C <0°C &>100°C, ±0.015% of span/°C ±0.015% reading/ ^OC typical 0.1% / 12 months typical 10 to 32Vdc

Class B Industrial 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 200mV ±1% 0mV ±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

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 200mV ±1% 0mV ±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

Options

Pressure Connection

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

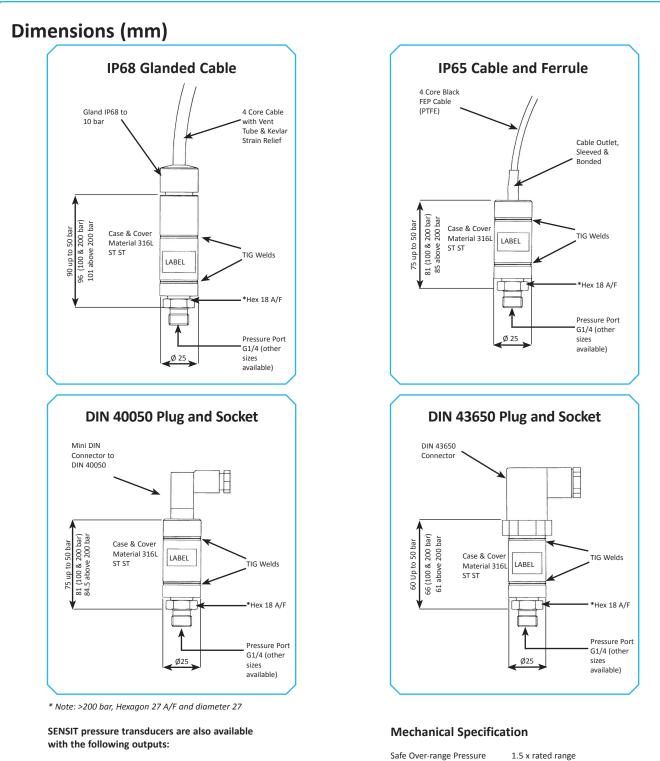
Housing Material

316L Stainless Steel Others available on request

Electrical Output

0-100mV Others available on request





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

1.5 x rated range3 x rated range minimumStainless 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.

Burst Pressure

Wetted Materials

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Page 2 of 2

