SUCO ESI
North America

Hispec® HI6200H

Hydrogen Compatible Pressure Transducer

- Compatible for use within Hydrogen based environment
- Compact design with Metri-Pack 150 connection
- Silicon-on-Sapphire sensor technology for outstanding performance
- Tested to ISO 11114-2:2017 according to EC79/2009 and EU406/2010
- Pressure ranges to 21,755 psi (1,500 bar)
- Specialist High Strength titanium alloy sensor
- Excellent Corrosion resistance and high resistance to overpressure

RoHS 2011/65/EU

Materials used in the manufacture of the Hydrogen range have been tested based on ISO 11114-2:2017 in accordance to the European Regulations EC 79/2009 and EU 406/2010 to determine an "embrittlement index" of the material when placed in a saturated environment over an extended period of time.

Results have provided a Pass rating to the compatibility of the specialist Titanium Alloy of the range against Hydrogen.

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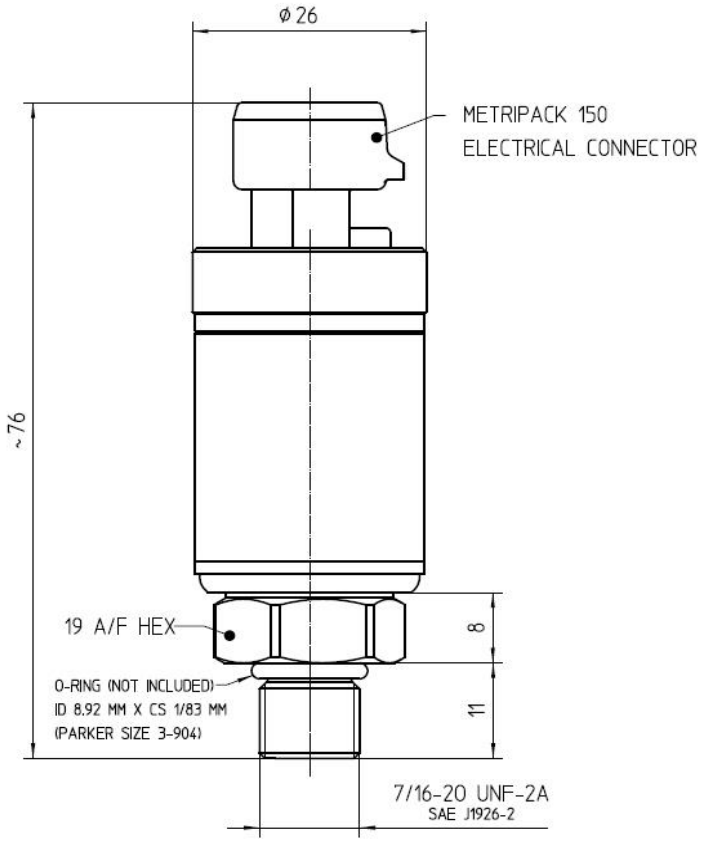
Specifications

The HISPEC - HI6200H series of Hydrogen compatible pressure transducers with state-of-the-art SOS sensor technology offers a highly accurate and durable sensor capable of withstanding over pressure levels of up to twice the stated pressure range. The compact design allows for installation in the most space conscious environments.

Typical applications include:

- Continuous monitoring of Hydrogen systems
- Hydraulic systems
- Oil, gas, water and other process liquid monitoring.

Dimensions
(in mm)



Electrical Connections

	METRI-PACK 150
Pin No.	**0.5-4.5 VDC ratiometric**
A	GND
B	+supply
C	+output

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Technical Data

Type	HI6200H	HI6201H	HI6202H	HI6203H
Sensor Technology:	Silicon-on-Sapphire (SOS)			
Output Signal:	0.5-4.5 V ratiometric (4 wire)	0-5 V (4 or 3 wire)	0-10 V (4 or 3 wire)	4-20 mA (2 wire)
Supply Voltage:	4.8-5.5 VDC	10-32 VDC	12-32 VDC	10-36 VDC
Pressure Reference:	Gauge			
Protection of Supply Voltage:	Reverse polarity, overvoltage up to 36VDC			
Standard Pressure Ranges (bar):	0 – 1 bar Vac; 0 – 0.5 bar; 0 – 1 bar; 0-2.5 bar; 0-6 bar; 0 – 10 bar; 0-16 bar; 0 – 25 bar; 0 – 100 bar; 0 – 250 bar; 0-400 bar; 0 –600 bar; 0-1,000 bar; 0 – 1,500 bar (other ranges available)			
Standard Pressure Ranges (psi):	0-30 in Hg; 0-7.5 psi; 0-15 psi; 0-30 psi; 0-100 psi; 0-150 psi; 0-200 psi; 0-300 psi; 0-1,500 psi; 0-3,000 psi; 0-6,000 psi; 0-8,700 psi; 0-15,000 psi; 0-20,000 psi (other ranges available)			
Overpressure Safety:	4x for 0.5 bar range; 2x for ranges -1 bar to 600 bar; 1.5x for 1,000 bar range; 1.1x for 1,500 bar range			
Load Driving Capacity:	≥ 4.5k	≥ 5k	≥ 10k	RL < [UB - 10 V] / 20 mA (e.g. with supply voltage (UB) of 36 V, max. load (RL) is 1300 Ω)
Accuracy NLHR:	≤ ±0.25 % of span BFSL			
Zero Offset and Span Tolerance:	±0.02 V at room temperature			
Operating Temperatures:	**Ambient:** -40 °F to +185 °F (40 °C to +85 °C) **Media:** -58 °F to +257 °F (-50 °C to +125 °C)			
Storage Temperature:	+41 °F to +104°F (+5 °C to +40 °C) Recommended Best Practice			
Temperature Effects:	±1.5 %FS total error band for -20 °C to +70 °C. Typical thermal zero and span coefficients ±0.015 %FS /°C			
Electromagnetic Compatibility:	EN61000-6-2; EN61000-4-2: Electrostatic discharge: contact ±4kV, air ± 8kV; EN61000-4-4: Fast Transients ± 4kV signal port; EN61000-4-5: Surges ±0.5kV Line to Line; EN 61000-4-6: Disturbances 10V eff 0.15MHz - 80MHz. Certification: CE marked			
Insulation Resistance:	> 100 MΩ @ 50 VDC			
Response Time 10-90%:	1 mS			
Wetted Parts:	All fluids compatible with titanium alloy			
Pressure Media:	Hydrogen and all fluids compatible with Titanium alloy			
Pressure Connection:	7/16-20UNF-2A SAE J1926-2 (others options available)			
Electrical Connection:	Metri-Pack 150 (other options available)			
Net Weight:	0.1 Kg			