

Cambria Pressure Sensor- General Specification

This preliminary data sheet describes the Cambria Wet/Wet Pressure transducer. The rugged transducer measures pressure and temperature (option) with excellent accuracy and high resolution. The unit is made of stainless steel, including all wetted parts and can be used in mildly aggressive liquid environments. Form factor, cable style and output per client specification. Pressure-cell is oil-filled, stainless steel diaphragm.

Applications

- Hydrocarbon Monitoring
- Process Control
- Explosion/Hazardous Areas
- Critical Facilities

Features

- All Stainless Steel Wetted Parts
- 1% Accuracy
- +/- 0.20% linearity
- Excellent frequency response
- Water, most fluids, Conventional fuels, E15, E85
- Digital, analog, 4-20 ma outputs



Preliminary Specifications

Pressure range:	Units available from 15 psi to 500 psi
Overpressure:	x2, x1.5 of pressure range
Operable sensor temp range:	-40°C to 150°C
Cable temperature:	-40°C to 85°C
Signal conditioner temperature:	-40°C to 85°C
Frequency response:	0.01 Hz to 20 kHz (model dependent)
Accuracy, linearity and hysteresis:	±0.25% RSS FS at constant temperature (includes l,r,h)
Temperature coefficient of sensitivity:	+0.03%/ °C
Signal to noise ratio:	2000:1 @ 15 kHz
Sensor output:	0-6 V (options: 4-20ma, PWM, analog at other output)
Sensor diagnostics output:	0 – 3.6V
Guaranteed service lifetime:	5 Million Cycles, 3 years.
Linearity:	±0.20% FS
Hysteresis:	0.10% FS
Repeatability:	±0.05% FS
Pressure port (specify):	½ inch NPT internal or ¼ inch NPT ext standard. Most port fittings available.
Response time:	50 ms (water)
Case:	NEMA-4/IP65

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