



Differential Pressure Sensor

This preliminary data sheet describes the Cambria Wet/Wet Differential Pressure transducer. The rugged transducer measures differential 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 aggressive vapor environments.

Applications

Hydrocarbon Vapor Monitoring
 Vapor Recovery Systems
 Explosion/Hazardous Areas
 Critical Facilities

Benefits

All Stainless Steel Wetted Parts
 Better than 1% accuracy
 +/- 0.15% linearity
 Excellent frequency response
 Conventional Fuels, E15, E85
 Digital, Analog, 4-20ma, PWM outputs.

Preliminary Specifications

Pressure range:	Differential, +/- 1psi
Pressure Non-Linearity:	±0.25% FS
Pressure Hysteresis	+/- 0.05% FS
Overpressure	5x of pressure range
Operating Temperature:	-40 to 125°C
Thermal Hysteresis	±0.1% FS
Cable temperature	-40 to 85°C with high temp option to 125°C
Signal conditioner temperature:	-40 to 85°C model DP_Industrial -40 to 125°C (260 °F); model DP-HT
Supply Current	Less than 10 ma total (transducer + electronics)
Supply Voltage	5.0 to 24.0 volt dc
Sensor output:	Options: 0-5volt, 4-20ma, PWM
Guaranteed service life time	5 Million cycles, 2 years.
Frequency response:	0.01 Hz to 500 Hz
Signal to Noise Ratio	2000:1 @ 10 Hz
Pressure port	½ inch NPT internal
Response Time:	50 ms (water)
Case:	NEMA-4/IP65