

Universal Differential Pressure Transducer

Sensorwerks



Model UVD

- Ranges from 0-50 Psid to 0-750 Psid
- Bonded Foil Strain Gage
- All-welded Stainless Steel Construction
- Overload protected to 1500 psid from either side
- Line Pressure to 1500 psig
- Minimum Accuracy of 0.25 % FS

Specifications

Pressure Ranges	0-50 to 0-750 psid
Accuracy(min)	0.25 % FS
Non-Linearity	+/-0.15 % FS
Hysteresis	+/-0.10 % FS
Repeatability	+/-0.05% FS
Sensitivity /Output	2 mV/V
Zero Setting	+/- 1% FS
Zero shift with with Line pressure	+/- 1.5 %F / 1500 psig
Resolution	Infinite
Overload Pressure	
Temperature, Operating	-65°F to 250°F (non-oil filled)
Temperature, Compensated	60°F to 160°F
Temperature Effect, Zero	+/- 0.5 %FS Nominal / 100°F
Temperature Effect, Span	+/- 1% Reading / 100°F
Strain Gages Type	Bonded foil
Excitation(Calibrated)	10 VDC
Excitation(acceptable)	up to 12 VDC or AC
Bridge Insulation Resistance	5000 megOhms
Bridge Resistance	350 Ohms Nominal
Shunt Calibrated Data	included on calibration sheet
Wiring Code	Red / Black.....+/- Excitation White / Green.....+/- Signal

Mating connector	15 ft Cable Poly urethane jacked cable
Electrical Terminations	Integral cable with 5 ft., 4 conductor, shielded, Poly urethane jacked cable. Optional welded-on PTIH-10-6P (6 pins) Quick disconnect hermetic connector.
Media	Gas or liquid
Maximum Line Pressure	1500 psig
Maximum Overload protected	1500 psi (either side)
Pressure Connections	1/8-27NPT Inside Thread (2)
Tapped Mounting Holes (2 each)	1/4-28UNF x 5/16" deep (2)
Drain Ports	1/8-27 NPT inside thread (2)
Burst Pressure	
Wetted parts Material	17-4PH Stainless Steel
Weight	5.0 lbs
O-Ring Seals	Viton Standard
Dead Volume	0.25 cubic inches
Case Material	17-4PH Stainless Steel
Diameter	3.00 Inches
Length	3.00 Inches
Optional High Level Outputs with zero and span adjustments	+/- 5 VDC +/- 10 VDC with internal Shunt Calibration Resistor, or 4-20mA Two Wire (Specify)