

Bulletin 2217-91

Model 2217

Bonded Strain Gage Differential Pressure Transducer

*High Differential Overload Pressure,
High Line Pressure Capability*



Features:

- All austenitic materials -case and wetted cavity.
- Removable pressure caps facilitate inspection and cleaning of pressure media cavity.
- 1200 PSI differential overload pressure.
- 5000 PSI line pressure.
- True differential pressure measurement.

Options:

- Pressure fitting per MS33656-4.
- Internal or external shunt.
- Special electrical receptacles.

Pressure Ranges:

PSID	BAR
0-2	0-138m
0-3	0-207m
0-5	0-13.8
0-10	0-689m
0-15	0-1.03
0-20	0-1.38
0-25	0-1.72
0-30	0-2.07
0-50	0-3.45
0-75	0-5.17
0-100	0-6.89
0-150	0-10.3
0-200	0-13.8
0-250	0-17.2
0-300	0-20.7
0-400	0-27.6
0-500	0-34.5
0-750	0-51.7
0-1000	0-68.9

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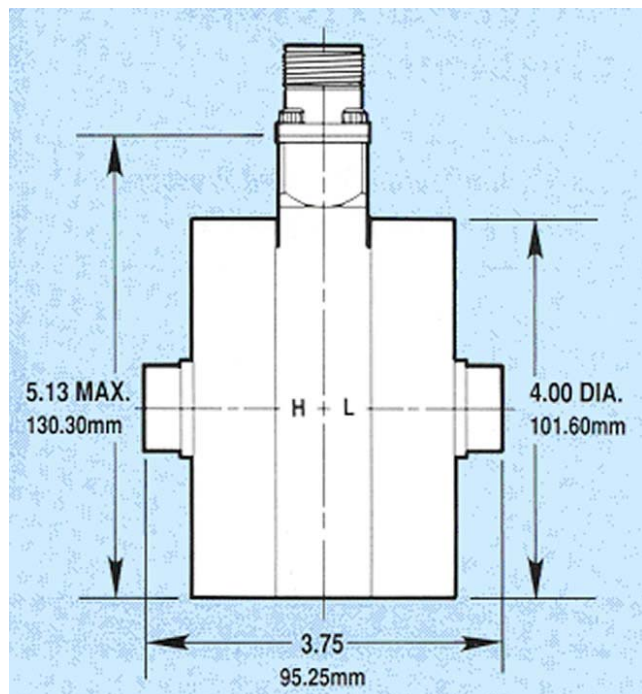
Bonded Strain Gage Differential Pressure Transducer

Specifications:

Materials of Construction	Case and Pressure Caps: 316 Stainless Steel Diaphragms: 347 Stainless Steel Pressure Cap O-Ring: Teflon [®]
Full Scale Output	3.0 ±0.03 mV open circuit per volt excitation for high side. Calibrated at 10.00 Vdc excitation.
Zero Balance	0.00 ±0.03 mV per volt at +70°F (+21°C).
Zero Shift with Line Pressure	Within ±0.5% FSI per 1000 PSI typical Within ±1.0% FSO per 1000 PSI typical for 2 and 3 PSID ranges.
Linearity	Within ±0.25% FSO.
Hysteresis	Within ±0.25% FSO.
Repeatability	Within 0.20% FSO.
Resolution	Infinite.
Differential Overload Pressure (Toggle)	1200 PSID may be applied to either port without causing a zero shift greater than ±1% FSO.
Rated Line Pressure	5000 PSIG maximum.
Compensated Temperature Range	-10°F to 160°F (-23°C to +71°C).
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C).
Thermal Sensitivity Shift	Less than ±0.020% FSO per °F over compensated temperature range (±0.036% FSO per °C)
Thermal Zero Shift	Less than ±0.010% FSO per °F over compensated temperature range. Less than ±0.020% FSO per °F for 2 and 3 PSID ranges. (±0.018% FSO per °C and ±0.036% FSO per °C).
Excitation	10 volts dc or ac rms recommended. 15 volts dc or ac maximum.
Input Resistance	350 ±3.5 ohms at +70°F (+21°C). Input circuitry symmetrical.
Output Resistance	350 ±5.0 ohms at +70°F (+21°C).

Specifications:

Insulation Resistance	Greater than 10k megohms at 50 Vdc between all terminals in parallel and case at +70°F (+21°C).
Pressure Connection	7/16-20 internal thread per MS33649-4. Options available.
Pressure Cavity Volume	.50 in ³ (8.2 ml) excluding MS33649-4 fitting.
Electrical Receptacle	Stainless steel receptacle to mate with MS3106-14-2S. Standard wiring: Excitation +A, -D; Signal +B, -C. Options available.
Enclosure	Entire housing and pressure cavity of stainless steel. All electrical components sealed against adverse environmental conditions.
Weight	Approximately 9.5 pounds (4.3 kg).



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