

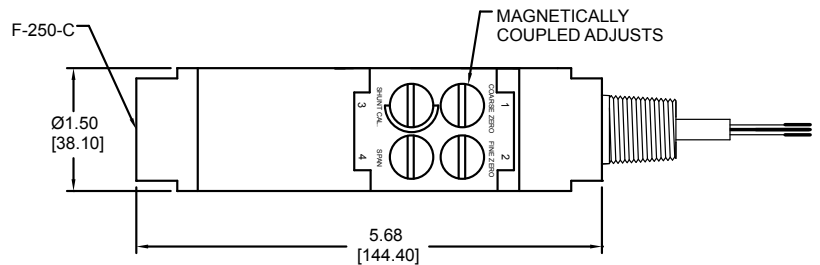


MODEL 1171

FIELD RANGEABLE PROCESS PRESSURE TRANSDUCER

STANDARD WIRING

WIRE	MODEL 1171
1/RED	+EXC/SIG
2/BLK	-EXC/SIG
3/GRN	CASE GND



Inches (mm)



Standard configurations shown.
Please consult factory for other options.

PRODUCT OVERVIEW:

The Model 1171 Series from GP:50 is a rugged, hermetically sealed pressure transmitter which features magnetic coupling adjusts for full field calibration with 5:1 turndown ratio. Their compact, corrosion-resistant, all-welded stainless steel construction provides reliable, maintenance-free service life within harsh marine and offshore oil and gas environments.

FEATURES:

- Magnetic coupling provides field calibration with 5:1 turndown ratio
- 0 to 15 PSIV thru 0-100K PSISG, PSIA (1 BAR V thru 6895 BAR)
- 4-20 mA (loop powered) output
- FM, CSA intrinsically safe and explosion proof ratings
- IP67 & NEMA 6 rated housing

APPLICATIONS:

- Offshore rigs and pumping platforms
- Pipelines and processing
- Shipboard and marine
- Plastics and polymer processing
- Pulp and paper

OPTIONS:

- Magnetically-coupled zero and span adjusts
- 5:1 turndown ratio, both fine and coarse
- Shunt calibration
- Hermetically sealed design

*For details of available approvals go to:
<https://www.gp50.com/certifications>

GP:50 MODEL 1171

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	4-20 mA, two-wire loop powered
Temperature Output:	Consult Factory
Excitation Voltage:	9 to 36 Vdc
Insulation Resistance:	Better than 10 MΩ @ 50 Vdc
Circuit Protection:	Reverse polarity above 45 V to 20 A at 0.02 milliseconds
Response Time:	5 ms, 10% to 90% FSPR

MATERIALS OF CONSTRUCTION	
Wetted Parts:	17-4 PH stainless steel (Options available, consult factory)
Housing:	316 stainless steel
Bonded foil strain gauge	

ACCURACY (BFSL): Hysteresis, Non-Linearity & Repeatability @ +70 °F	
Standard:	±0.25% FSO
Improved:	
Zero & Span Balance:	Fine and course adjustable

MECHANICAL	
Process Connection:	0 thru 15K PSI: ¼" NPT (F) 20K thru 50K PSI: Autoclave type F-250-C 60K thru 75K PSI: Autoclave type F-312-C150
Electrical Connection:	½" NPT (M) conduit with 6 ft 18 AWG multi-conductor cable
Proof Pressure:	(0 THRU 15K PSI) 2X FSO or 20K PSI (1,379 BAR), whichever is less (20K to 100K PSISG, A) 1.2X FSO or 125K PSI (8,618 BAR), whichever is less
Burst Pressure:	15 thru 50 PSI: 250 PSI (17 BAR) 75 thru 15K PSIS: 5X FSO or 22.5K PSIG (1,551 BAR), whichever is less 10K thru 100K PSIS: 1.5X FSO or 125K PSIB (8,618 BAR), whichever is less
Longterm Stability:	0.25% FSPR over six months
Approximate Weight:	<28 oz (0.8 kg)

PRESSURE RANGES	
0 to 15 PSIV, 0 to 2 PSIG, A thru 0 to 100K PSISG, PSIA (1 BAR thru 6,895 BAR)	
5:1 on ranges >5 PSI (0.3 BAR)	

THERMAL SPECIFICATIONS	
Operating Range:	-10 °F to +185 °F (-23 °C to +85 °C)
Compensated Range:	0 °F to +185 °F (-17.8 °C to +85 °C)
Storage Ambient:	-65 °F to 250 °F (-53 °C to +121 °C)
Effect on Zero/Span:	<±1.0% FSO/100 °F
At 5:1 Ranging:	<3.5% FSO/100 °F
Improved or expanded temperature compensation available	

APPROVALS	
FM/CSA Explosion Proof:	Class I, II, III Division I / Groups A, B, C, D, E, F, G (FM Standard / CSA requires P option code)
FM/CSA Intrinsically Safe:	Class I, II, III Division I / Groups A, B, C, D, E, F, G
CE Compliant	
EMC 89/336/EEC	
PED 97/23/EC	

