

FIELD RANGEABLE PROCESS PRESSURE TRANSMITTER

MODEL 1171

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

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.

FIELD OPTIONS:

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



Model 1171
Field Rangeable Process Pressure Transmitter

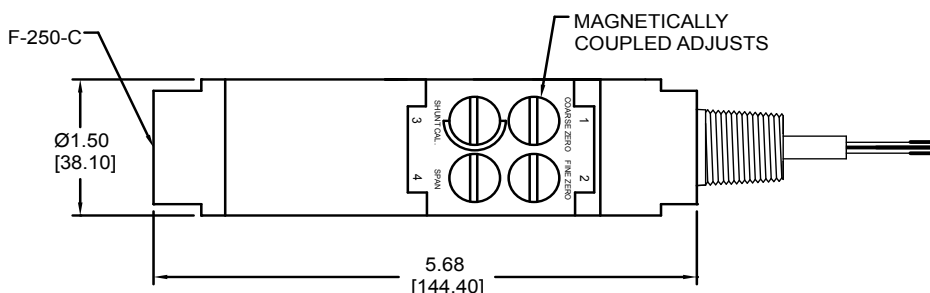


GP:50 MODEL 1171

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

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



REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> • Supply Voltage: 9 to 36 Vdc • Output Signal: 4-20 mA, two-wire loop powered • Load Impedance: 500 Ω • Insulation Resistance: Better than 10 MΩ at 50 Vdc • Circuit Protection: Reverse polarity above 45 V to 20 A at 0.02 milliseconds • Response Time: 5 ms, 10 to 90% FSPR • Connection: 1/2" NPT (M) conduit with 6 ft 18 AWG multi-conductor cable • Enclosure Classification: IP67 	<ul style="list-style-type: none"> • Process connection: 0 thru 15K PSI: 1/4" NPT (F) 20K thru 50K PSI: Autoclave type F-250-C 60K thru 75K PSI: Autoclave type F-312-C150 • Proof Pressure: (0 thru 15K PSI) 2X FSO or 20K PSI (1,379 BAR), whichever is less (20K to 100K PSIG,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 20K thru 100K PSIS: 1.5X FSO or 125K PSIG (8,618 BAR), whichever is less • Longterm Stability: 0.25% FSPR over six months • Weight: <28 oz (0.8 kg)
STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F) <ul style="list-style-type: none"> • >0.25% FSO 	PRESSURE RANGES <ul style="list-style-type: none"> • 0 to 15 PSIV, 0 to 2 PSIG, A thru 0 to 100K PSISG, PSIA (1 BAR V thru 6,895 BAR) • 5:1 on ranges >5 PSI (0.3 BAR)
APPROVALS <ul style="list-style-type: none"> • 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 	THERMAL SPECIFICATIONS <ul style="list-style-type: none"> • Compensated: 0 to +185 °F (-17.8 °C to +85 °C) • Operating Ambient: -10 °F to +185 °F (-23 °C to +85 °C) • Effect on Zero/Span: <±1.0% FSO/100 °F • At 5:1 Ranging: <3.5% FSO/100 °F • Zero Balance: Fine and course adjustable
MATERIALS OF CONSTRUCTION <ul style="list-style-type: none"> • Wetted Parts: 17-4 PH stainless steel (other options available) • Housing: 316L stainless steel • Bonded foil strain gauge 	

**Standard configurations shown.
Please consult factory for other options.**

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.

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