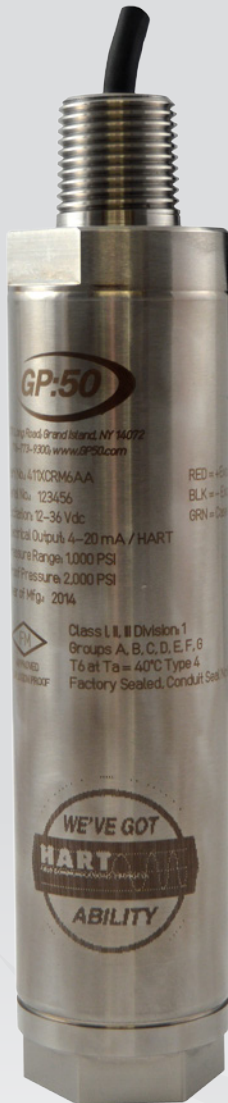




SMART RANGEABLE HAZARDOUS LOCATION PRESSURE TRANSMITTER



Model 411, 411X/P
Smart Rangeable Pressure Transmitter

MODEL 411, 411X/P

FEATURES:

- 4-20 mA with digital HART protocol
- 0-15 PSI thru 0-100K PSI (0-1 thru 6,895 BAR)
- 5:1 turndown ratio
- Secondary containment for oil services
- Submersible version
- FM, CSA explosion-proof versions

APPLICATIONS:

- Offshore rigs and pumping platforms
- Oil and gas/chemical pipeline and processing
- Marine and shipboard service
- Submersible level

PRODUCT OVERVIEW:

The Model 411, 411X/P from GP:50 is a SMART rangeable pressure transmitter incorporating a 4-20 mA output with digital HART protocol. Units are offered with both CSA and FM approval options, as well as a variety of process and electrical connections. Improved accuracy provides for a stable measurement throughout the total compensated temperature range.

FIELD OPTIONS:

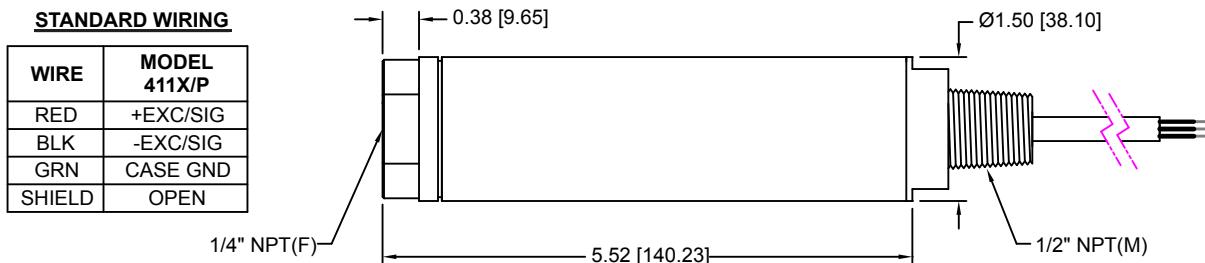
- 5:1 turndown ratio for most ranges
- Multiple pressure and temperature outputs
- Exotic wetted materials
- Submersible level option
- Alternate process connections
- Optional 4-20 mA temperature output



GP:50 MODEL 411, 411X/P

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> • Supply Voltage: 12-36 Vdc • Output Signal: Two wire 4-20 mA with digital HART protocol (optional 4-20 mA temperature output) • Input Impedance: 250 Ω at 17 Vdc • Insulation Resistance: Better than 10 MΩ at 50 Vdc • Circuit Protection: RFI/EMI, reverse polarity (voltage transients above 45 V to 20 A at 0.02 milliseconds) • Resolution: 12-bit • Frequency Response: From 0.07 to 40 sec (software adjustable) • Connection: 1/2" NPT M conduit with 6-ft 18 AWG multi conductor cable
MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> • Wetted Parts: 17-4 PH stainless steel (Optional Inconel 718, K12X, or 13-8 Monel) • Housing: 316 stainless steel
STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
Standard: $\pm 0.25\%$ FSO
Improved: $\pm 0.1\%$ FSO
Zero Balance and FSO: $\pm 0.5\%$ FSO at +70 °F
PRESSURE RANGES
<ul style="list-style-type: none"> • 0-15 PSI thru 0-100K PSIS, PSIA, PSIV, PSIG (1 BAR V thru 6,895 BAR) • Range Adjustments: 5:1 for ranges 0-5 PSI thru 0-100K PSI (0.3 BAR thru 6,895 BAR)

MECHANICAL
<ul style="list-style-type: none"> • Process Connection: 0-5 thru 0-15K PSI (0-0.3 thru 0-1,035 BAR), PSIV: 1/4" NPT (F) 0-20K thru 0-50K PSI (0-1,380 thru 0-3,450 BAR): Autoclave type F-250-C 0-60K thru 0-75K PSI (0-4,135 thru 0-5,170 BAR): Autoclave type F-312-C150 • Proof Pressure: 0-15K (1,035 BAR) PSI 1.5X FSO 20K-100K (6,894 BAR) PSIG 1.2X FSO • Burst Pressure: 0-15K 3X FSO 20K-100K (6,894 BAR) PSIG 1.5X FSO or 125K PSIG (8,618 BAR), whichever is less • Long-term Stability: 0.25% FSPR over six months • Approximate Weight: <24 oz (0.7 kg) • Enclosure: IP67
THERMAL SPECIFICATIONS
<ul style="list-style-type: none"> • Compensated: 0 to +170 °F (-18 °C to +77 °C) • Operating Ambient: -40 °F to +185 °F (-40 °C to +85 °C) • Effect on Zero/Span (1:1): $\pm 0.25\%$ FSO/100 °F • At 5:1 Ranging: $\pm 0.50\%$ FSO/100 °F

**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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