





PRODUCT OVERVIEW:

FEATURES:

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.

- 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

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

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

| ELECTRICAL | |
|------------------------|--|
| Output Signal: | Two wire 4-20 mA with digital HART protocol |
| Temperature Output: | Optional 4-20mA |
| Excitation Voltage: | 12-36 Vdc |
| Input Impedance: | 250 Ω at 17 Vdc |
| Insulation Resistance: | >10 MΩ @ 50 Vdc |
| Resolution: | 12-bit |
| Frequency Response: | From 0.07 to 40 sec (software adjustable) |
| Circuit Protection: | RFI, EMI & Reverse polarity protected (voltage transients above 45 V to 20 A at 0.02 milliseconds) |

| MATERIALS OF CONSTRUCTION | |
|---------------------------|--|
| | 17-4 PH stainless steel (Optional Inconel 718, K12X, or 13-8 Monel) |
| Housing: | 316 stainless steel |

| ACCURACY (RSS): Hysteresis, Non-Linearity & Repeatability @ +70 °F) | | |
|---|---------------------|--|
| Standard: | ±0.25% FSO | |
| Improved: | ±0.1% FSO | |
| Zero & Span Balance: | ±0.5% FSO at +70 °F | |

| MECHANICAL | |
|------------------------|---|
| 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 |
| Electrical Connection: | 1/2″ NPT M conduit with 6-ft 18 AWG multi-conductor cable |
| 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 |

PRESSURE RANGES 0-15 PSI thru 0-100K PSIS, PSIA, PSIV, PSIG (1 BAB V thru 6 895 BAB)

| (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) |

| THERMAL SPECIFICATIONS | |
|------------------------|---------------------------------------|
| Operating Range: | -40 °F to +185 °F (-40 °C to +85 °C) |
| Compensated Range: | 0 °F to +170 °F (-18 °C to +77 °C) |
| Storage Ambient: | -65 °F to +250 °F (-53 °C to +121 °C) |
| Effect on Zero/Span: | (1:1): ±0.25% FSO/100 °F |
| | (5:1): ±0.50% FSO/100 °F |



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