MODEL 470

FEATURES:

- Reduced zero offset due to installation
- High-accuracy option of ±0.10% FSO
- Corrosion resistant, high strength fasteners eliminate housing breakage
- Field rangeable electronics via hart communicator or hart USB Dongle and GP:50 software
- 0 to 1000 thru 0 to 20K PSI (69 thru 1,379 BAR)
- Compatible with 2” 1502, 2002, 2202, and 602 wing union fittings

APPLICATIONS:

- Fracking, cementing, coil tubing and acidizing
- Mud pumps / Measure While Drilling
- Choke and kill manifolds
- Standpipe pressure
- Wellhead measurement

PRODUCT OVERVIEW:

The field adjustable Model 470 WECO® Hammer Union Pressure Transmitter from GP:50 is ruggedly designed and engineered to effectively address demanding shock and vibration and installation challenges within the oilfield environment. Units are directly compatible with WECO® 2”-1502, 2202, 2002 or 602 wing union fittings. The field adjustment option provides for zero and span adjustments as well as rangeability. This field adjustable option eliminates need to rescale your panel meter when replacing transmitters and allows for fewer pressure ranges to stock.

FIELD OPTIONS:

- Internal, isolated shunt calibration
- Temperature output options
- ‘Connector Guard’ eliminates connector breakage
- Comprehensive list of electrical connections
**Electrical**

- **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:** Bendix PTO2E-10-6P

**Materials of Construction**

- **Sensor:** Wetted Material Selectable
  - Standard Operation: 17-4 PH (H1025) SST for ≤10K PSI and Inconel 718 NACE for ≥ 15K PSI
  - Optional Inconel X750 or 718
- **Housing:** 300 Series Stainless Steel

**Accuracy**

- **Static Accuracy** (Hysteresis, Non-Linearity & Repeatability @ +70 °F)
  - Standard: ≤±0.25% FSO (BFSL)
  - Improved: ≤±0.10% FSO (BFSL)
  - Zero Balance: ≤±0.50% FSO typ / ± 1.0% FSO max
  - Span: ±0.50% FSO typ / ± 1.0% FSO max

**Mechanical**

- **Process Connection:** WECO® 2"- 1502, 2002/2202 or 602
- **Proof Pressure:** 1.5X FSO or 22.5K PSI, whichever is less
- **Burst Pressure:** 3.0X FSO
- **Approximate Weight:** <6 lbs (2.7 kg) (options may affect weight)
- **Ingress Protection:** IP67 (some options may effect rating)

**Pressure Ranges**

- 0 to 1000 PSI thru 0 to 20K PSI (69 thru 1,379 BAR)
- Range Adjustments: 2:1

**Thermal Specifications**

- **Compensated:** -40 °F to +180 °F (-40 °C to +80 °C)
- **Operating:** -50 °F to +190 °F (-45 °C to +85 °C)
- **Zero/ Span:** <1.0% FSO/100 °F
- **At 2:1 Ranging:** ±2.0% FSO/100 °F

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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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