WECO® “HAMMER” UNION PRESSURE TRANSMITTER

MODEL 170 / 270 / 370

FEATURES:

- Reduced zero offset due to installation
- High-accuracy option of ±0.10% FSO
- Corrosion resistant, high strength fasteners eliminate housing breakage
- Hazardous location approvals
- 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 industry exclusive Model 170/270/370 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. They are also available in multiple outputs, ranges, electrical connections, and area approvals to meet specific requirements.

FIELD OPTIONS:

- Internal, isolated shunt calibration
- Temperature output options
- 3 mV/V, 0 to 5 Vdc, 4-20 mA, CANbus outputs
- ‘Connector Guard’ eliminates connector breakage
- High temperature option to +350 °F (+177 °C)
- Comprehensive list of electrical connections
DIMENSIONAL DRAWING
All dimensions are in inches (mm)

ELECTRICAL

Supply Voltage:
- (Model 170) 5 to 16 Vdc max
- (Model 270) 9 to 36 Vdc
- (Model 370) 9 to 36 Vdc (10 to 28 Vdc for IS approvals)

Output Signal:
- (Model 170) 1.6 mV/V typical
- (Model 270) 0 to 5 Vdc
- (Model 370) 4-20 mA
- (Model 570) CANbus J1939

Load Resistance:
- (Model 170) >100K Ω
- (Model 270) >10K Ω

Connection: Bendix PTO2E-10-6P

Input Current:
- (Model 170) 1 mA
- (Model 270) 8 mA
- (Model 370) 23 mA max.

Shunt Calibration:
- (Model 170/270) 100% FSO ±0.2% shorting E + F
- (Model 370) 100% FSO ±0.2% exciting E + F

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

REFERENCE SPECIFICATIONS

Acceura

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)

THERMAL SPECIFICATIONS

Compensated: -40 °F to +180 °F (-40 °C to +80 °C)
Operating: -50 °F to +190 °F (-45 °C to +85 °C)
Optional high-temperature version to +350 °F (+177 °C)
Zero/ Span: <1.0% FSO/100 °F

APPROVALS (370 SERIES ONLY)

- FM/CSA/ATEX/IEC Class 1 Div 1/Zone 0 Intrinsic Safety
- FM/CSA/ATEX/IEC Class 1 Div 2/Zone 2
- CE marked

Standard configurations shown. Please consult factory for other options.