

WECO® "HAMMER" UNION PRESSURE TRANSMITTER

MODEL 170 / 270 / 370

FEATURES:

- Reduced zero offset due to installation
- High-accuracy option of  $\pm 0.10\%$  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



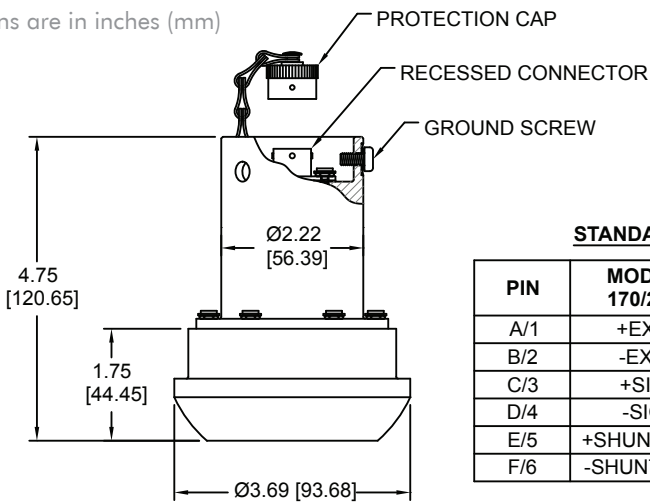
Model 170 / 270 / 370  
WECO® "Hammer" Union  
Pressure Transmitter



# GP:50 MODEL 170 / 270 / 370

## DIMENSIONAL DRAWING

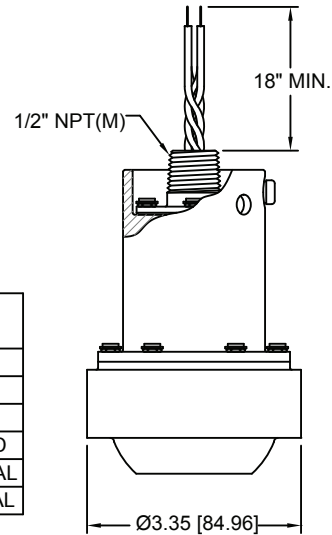
All dimensions are in inches (mm)



**2" #1502 CONFIGURATION**  
(SHOWN WITH "CA" CONNECTOR)

### STANDARD WIRING

PIN	MODEL 170/270	MODEL 370
A/1	+EXC	+EXC/SIG
B/2	-EXC	-EXC/SIG
C/3	+SIG	N/C
D/4	-SIG	CASE GND
E/5	+SHUNT/CAL	+SHUNT/CAL
F/6	-SHUNT/CAL	-SHUNT/CAL



**2" #2002/2202 CONFIGURATION**  
(SHOWN WITH "CF" CONNECTOR)

## REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> <li><b>Supply Voltage:</b> (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)</li> </ul>
<ul style="list-style-type: none"> <li><b>Output Signal:</b> (Model 170) 3 mV/V (Model 270) 0 to 5 Vdc (Model 370) 4-20 mA (Model 570) CANbus J1939</li> </ul>
<ul style="list-style-type: none"> <li><b>Load Resistance:</b> (Model 170) &gt;100K Ω (Model 270) &gt;10K Ω</li> </ul>
<ul style="list-style-type: none"> <li><b>Connection:</b> Bendix PTO2E-10-6P</li> </ul>
<ul style="list-style-type: none"> <li><b>Input Current:</b> (Model 170) 1 mA (Model 270) 8 mA (Model 370) 23 mA max.</li> </ul>
<ul style="list-style-type: none"> <li><b>Shunt Calibration:</b> (Model 170/270) 100% FSO ±0.2% shorting E + F (Model 370) 100% FSO ±0.2% exciting E + F</li> </ul>
MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> <li><b>Sensor:</b> 17-4 PH stainless steel standard Optional Inconel X750 and 718</li> <li><b>Housing:</b> 300 series stainless steel</li> </ul>

STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
<ul style="list-style-type: none"> <li>Standard: ≤ ±0.25% FSO</li> <li>Improved: ≤ ±0.10% FSO</li> </ul>
MECHANICAL
<ul style="list-style-type: none"> <li><b>Process Connection:</b> WECO® 2" - 1502, 2002/2202 or 602</li> <li><b>Proof Pressure:</b> 1.5X FSO</li> <li><b>Burst Pressure:</b> 3.0X FSO</li> <li><b>Approximate weight:</b> &lt;6 lbs (2.7 kg) (options may affect weight)</li> </ul>
PRESSURE RANGES
0 to 1000 PSI thru 0 to 20K PSI (69 thru 1,379 BAR)
THERMAL SPECIFICATIONS
<ul style="list-style-type: none"> <li><b>Compensated:</b> -40 °F to +180 °F (-40 °C to +80 °C)</li> <li><b>Operating:</b> -50 °F to +190 °F (-45 °C to +85 °C) Optional high-temperature version to +350 °F (+177 °C)</li> </ul>
APPROVALS (370 SERIES ONLY, OTHERS PENDING)
<ul style="list-style-type: none"> <li>FM/CSA/ATEX/IEC Class 1 Div 1/Zone 0 Intrinsic Safety</li> <li>FM/CSA/ATEX/IEC Class 1 Div 2/Zone 2</li> <li>CE marked</li> </ul>

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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