

HIGH-PRESSURE HIGH-TEMPERATURE (HPHT) WECO® UNION PRESSURE TRANSMITTER

MODEL 170 / 270 / 370 QX



Model 170 / 270 / 370 QX
High-Pressure High-Temperature (HPHT)
WECO® "Hammer" Union
Pressure Transmitter



FEATURES:

- 2" - 1502, 2002 and 2202 WECO® Union compatible
- Process temperature rated to +350 °F (+177 °C)
- 0 to 5K thru 0 to 20K PSI (345 thru 1,379 BAR)
- Corrosion resistant materials
- Optional improved accuracy specifications
- Hazardous area location approvals

APPLICATIONS:

- High-pressure, high-temperature (HPHT) wells
- Choke and kill manifolds
- Blowout preventer (BOP)
- Hydraulic fracturing

PRODUCT OVERVIEW:

GP:50's Model 370-QX series is designed for High Pressure High Temperature (HPHT) well applications. This series is designed to fit the standard WECO® 2" - 1502 or 2" - 2002/2202 unions and operates at a continuous process temperature to +350 °F (+177 °C). It offers reliable service in high shock and vibration applications such as cementing, fracturing and drilling mud pressure measurement.

FIELD OPTIONS:

- WECO® 2" 1502 or 2" 2002 wing union fitting
- Stainless steel or Inconel X750/ X718 construction
- Shunt calibration signal
- 3 mV/V, 0 to 5 Vdc, 4-20 mA or CANbus output
- Comprehensive list of electrical connections including shipboard rated cable

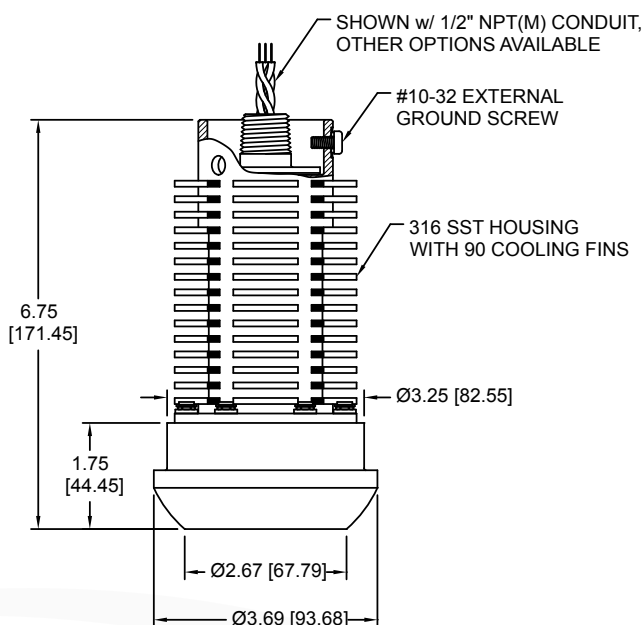
GP:50 MODEL 170 / 270 / 370 QX

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

WIRE	MODEL 170QX	MODEL 270QX	MODEL 370QX
A/1/RED	+EXC	+EXC	+EXC/SIG
B/2/BLK	-EXC	-EXC	-EXC/SIG
C/3/BLU	+SIG	+SIG	+SHUNT (ALT)
D/4/WHT	-SIG	-SIG	N/C
E/5/ORG	+SHUNT (OPT)	+SHUNT (OPT)	+SHUNT (OPT)
F/6/BRN	-SHUNT (OPT)	-SHUNT (OPT)	-SHUNT (OPT)
G/7/GRN	CASE GND	CASE GND	CASE GND



REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> Supply Voltage: (Model 170) 15 Vdc max (Model 270) 9 to 36 Vdc (Model 370) 9 to 36 Vdc (10 to 28 Vdc for GI/Al/I approvals) Output Signal: (Model 170) 3 mV/V (Model 270) 0 to 5 Vdc (Model 370) 4-20 mA (Model 570) CANbus / SAE J1939 Load Resistance: (Model 170) > 100K Ω (Model 270) > 10K Ω Connection: Bendix PTO2E-10-6P standard Input Current: (Model 170) 1 mA (Model 270) 8 mA (Model 370) 23 mA max. Shunt Calibration: (Model 170/270) 100% FSO by shorting 2 pins, non-isolated version (Model 370) 100% FSO by powering 2 pins, fully isolated
MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> Sensor: 17-4 PH stainless steel standard Inconel X750 and Inconel 718 optional Housing: 300 series stainless steel

STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
<ul style="list-style-type: none"> Standard: $\leq \pm 0.25\%$ FSO Zero Balance/Span: $< \pm 1.0\%$ FSO/100 °F
MECHANICAL
<ul style="list-style-type: none"> Process Connection: WECO® 2"- 1502 or 2002/2202 Proof Pressure: 1.5X FSO Burst Pressure: 3.0X FSO 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
<ul style="list-style-type: none"> Compensated: -40 °F to +350 °F (-40 °C to +177 °C) Operating Process: -50 °F to +360 °F (-45 °C to +182 °C) Operating Ambient: -50 °F to +120 °F (-45 °C to +49 °C) Assumes a +350 °F (+177 °C) process temp, otherwise -50 °F to +185 °F (-45 °C to +85 °C) Storage: -60 °F to +190 °F (-51 °C to +87 °C)
APPROVALS (370 SERIES ONLY, OTHERS PENDING)
<ul style="list-style-type: none"> FM/CSA/ATEX/IEC Intrinsic Safety FM/CSA/ATEX/IEC Zone 2 CE Marked

**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.

WECO® is a federally registered trademark of FMC Technologies

DM-SENSORS

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