



## HIGH PRESSURE HIGH TEMPERATURE (HPHT)

### WECO® UNION PRESSURE TRANSMITTER

#### Models 170, 270, 370 "QX"

Designed specifically for use with either WECO® 2" 1502, 2202, 2002 or 602 Wing Union Fittings for high pressure & high temperature (HPHT) well applications.



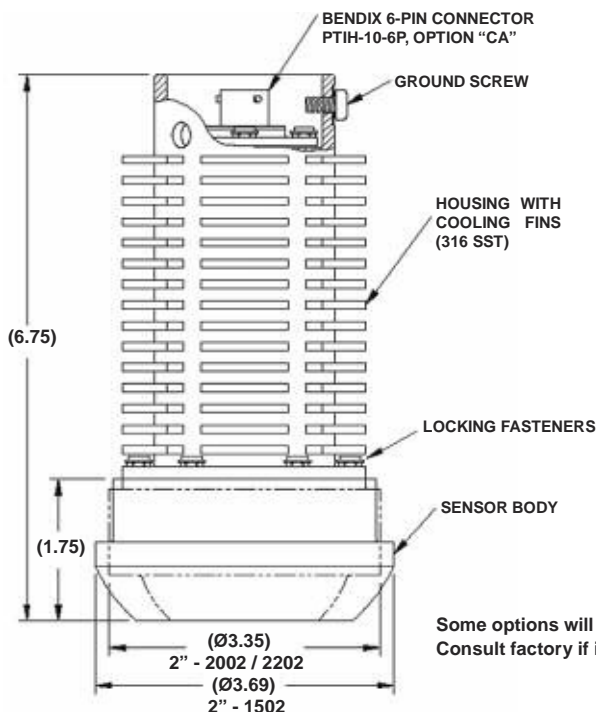
#### FEATURES:

- Designed for High Pressure High Temperature well applications
- Rated to +350° F (177° C) Process Temp.
- Pressure ranges from 0-5000 thru 0-20,000 psi
- Wetted materials meet NACE MR0-175 Guidelines
- 2" 1502, 2202, 2002 & 602 configurations avail.
- FM, CSA, ATEX and IEC IS approval options
- Optional electrical connections available

#### Approvals



PIN:	170/270	370
A/1	+EXC.	+EXC./SIGNAL
B/2	-EXC.	-EXC./SIGNAL
C/3	+SIGNAL	NC
D/4	-SIGNAL	CASE GROUND
E/5	+SHUNT/CAL	+SHUNT/CAL
F/6	-SHUNT/CAL	-SHUNT/CAL



Some options will affect dimensions. Consult factory if important.

#### Accuracy:

- Static Error (Includes Hysteresis, Non-linearity, Non-Repeatability)
- $\leq 0.25\%$  FSO (RSS)

#### ZeroBalance&FSO:

- (Model 170) - 0.0 mV/V  $\pm 1\%$  FSO at 10 VDC
- (Model 270) - 0.0 V  $\pm 1\%$  FSO at 24 VDC
- (Model 370) - 4.0 mA  $\pm 1\%$  FSO at 24 VDC

#### FullScaleOutput:

- (Model 170) - 3 mV/V
- (Model 270) - 5 VDC
- (Model 370) - 16mA

#### TemperatureLimits:

- Process Compensated Range: -40° F to 350°F (-40° C to 177° C)
- Process Operating Range: -50° F to 360°F (-45° C to 182° C)
- \* Ambient Operating Range: -50° F to 120°F (-45° C to 49° C)
- Ambient Storage Range: -60° F to 190°F (-51° C to 87° C)

#### Electricals:

- Excitation Voltage:
  - (Model 170) - 15 VDC max
  - (Model 270) - 9-36 VDC
  - (Model 370) - 9-36 VDC (10-28 VDC for GI/AI/I approvals)
- Input Current:
  - (Model 270) - 8 mA
  - (Model 370) - 23 mA max.
- Output Current: (Model 270) - 10 mA (Model 370) - 23 mA max.
- Load Impedance:
  - (Model 170) - >10K ohms
  - (Model 270) - >5K ohms
- Shunt Calibration:
  - (Model 270 & 370) - 100% FSO
- Zero Balance / Span: Less than  $\pm 1.0\%$  FSO/100°F

#### Mechanicals:

- Proof Pressure: 1.5X Pressure range or 22,5000 PSI which ever is less
- Burst Pressure: 3X Pressure Range or 22,5000 PSI which ever is less
- Weco Fitting limited to 22.5K PSI max working pressure
- IP68 Rated with proper mate

#### MaterialsofConstruction:

- Sensor: See options below
- Housing: 300 Series SST

#### Connections:

- Pressure: WECO® 2" 1502 or WECO® 2" 2002/2202
- Electrical: Bendix PTØ2E-10-6P (SST) Options available

#### Identification:

 Etched on Housing

\*Maximum ambient operating range assumes 350° F (-177° C)



Typical configurations (consult factory for more options)

**MODELS**

<b>170</b>	3 mV/V
<b>270</b>	0 - 5 Vdc
<b>370</b>	4 - 20 mA

**APPROVALS - 370 Series Only**

<b>I</b>	FM/CSA Intrinsic Safety - 370
<b>AI</b>	ATEX/IEC Intrinsic Safety - 370
<b>AN</b>	ATEX Zone 2
<b>GI</b>	ATEX/IEC/FM/CSA Intrinsic Safety - 370
<b>EC</b>	CE Marking - 370
<b>N</b>	FM/CSA Div/Zone 2

**PROCESS CONNECTION**

<b>A</b>	WECO® 2" 1502 Inconel X750
<b>B</b>	WECO® 2" 2002 Inconel X750 **
<b>C</b>	* WECO® 2" 2202, Inconel 718 **
<b>D</b>	* 2" 1502, Inconel 718
<b>G</b>	* 2" 1502 SST
<b>H</b>	* WECO® 2" 2202/2002 SST **

\* Material meets NACE MR0175 Guidelines

\*\* Non-Detachable Design

**PRESSURE RANGE**

<b>SZ</b>	Non-standard range, if applicable
<b>RV</b>	5,000 psi
<b>RW</b>	6,000 psi
<b>RX</b>	7,500 psi
<b>RZ</b>	10,000 psi
<b>SB</b>	15,000 psi
<b>SD</b>	20,000 psi

**ELECTRICAL CONNECTIONS**

<b>CA</b>	Bendix 6-pin PTØ2E-10-6P (SST) (Standard)
<b>CF</b>	1/2" NPT(M) with 18" 18 AWG MTW cable
<b>DK</b>	Glenair 4-pin GC379-2-14S-2P
<b>DO</b>	Jupiter RECM 10TPN04-16
<b>DM</b>	MS3102E 14S-2P
<b>DP</b>	4-Pin Brad Harrison (IR4ØØ6A2ØA12Ø1)

**OPTIONS**

<b>GB</b>	Alternate electrical output
<b>GC</b>	Special calibration run
<b>GG</b>	Alternate shunt calibration signal, designate value on sales order
<b>ME</b>	80% Shunt Calibration
<b>MR</b>	Alternate wiring
<b>NB</b>	100% Powered Shunt (std on 370)
<b>NG</b>	Removable carrying handle
<b>NH</b>	Dual welded handle
<b>NC</b>	100% Unpowered Shunt Calibration (std on 170/270)
<b>QX</b>	Extended 350° F process temperature (-45°F to 185°F electronics)
<b>QY</b>	Remove shunt cal.

Consult factory for other options, such as carrying handle, optional materials, electrical connectors and replacement fasteners.

Consult WECO® manufacturer for published pressure maximums. WECO® is a Federally Registered Trademark with FMC Technologies.

**NOTE:**

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.