



# Pressure, Level & Temperature Transmitters & Transducers

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## WECO® “HAMMER” UNION PRESSURE TRANSMITTER

### Models 170, 270, 370

Designed specifically for use with either WECO® 2” 1502 or 2” 2002 Wing Union Fittings for the high pressure /vibration applications such as Cementing, Fracturing, Mud Pressure Measurement & Acidizing.



#### FEATURES:

- Designed to reduce “clamping effects” of Wing Union
- 0-5000 thru 0-20,000 psi
- Corrosion resistant materials
- High Accuracy
- 0-5 VDC, 4-20 mA, CANbus outputs
- Hazardous Locations Approvals
- 350°F version available
- 100% Shunt Cal

#### Approvals



#### WIRING: 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

#### Accuracy:

Static Error (Includes Hysteresis, Non-linearity, Non-Repeatability)

- ≤0.25% FSO (RSS)
- ≤0.10% FSO (Optionally available)

#### Zero Balance & FSO:

- (Model 170) - 0.0 mV/V ±1% FSO at 10 VDC
- (Model 270) - 0.0 V1% FSO at 24 VDC
- (Model 370) - 4.0 mA ±1% FSO at 24 VDC

#### Full Scale Output:

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

#### Temperature Limits:

- Compensated: -40° F to 180° F (-40° C to 80° C)
- Operating: -50° F to 190° F (-45° C to 85° C)

#### Electricals:

- Excitation Voltage:
  - (Model 170) - 16 VDC max
  - (Model 270) - 9-36 VDC
  - (Model 370) - 9-36 VDC (10-28 VDC for GI/AI/I approvals)
- Input Current:
  - (Model 170) - 45 mA
  - (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 170) - 100% FSO ±0.2% shorting E + F
  - (Model 370) - 100% FSO ±0.2% by exciting E + F
- Zero Balance / Span: Less than ±1.0% FSO/100°F

#### Mechanicals:

- Proof Pressure: 1.5 X Pressure Range
- Burst Pressure: 3.0 X Pressure Range

#### Materials of Construction:

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

#### Connections:

- Pressure: WECO® 2” 1502 or WECO® 2” 2002/2202
- Electrical: Bendix PTØ2E-10-6P

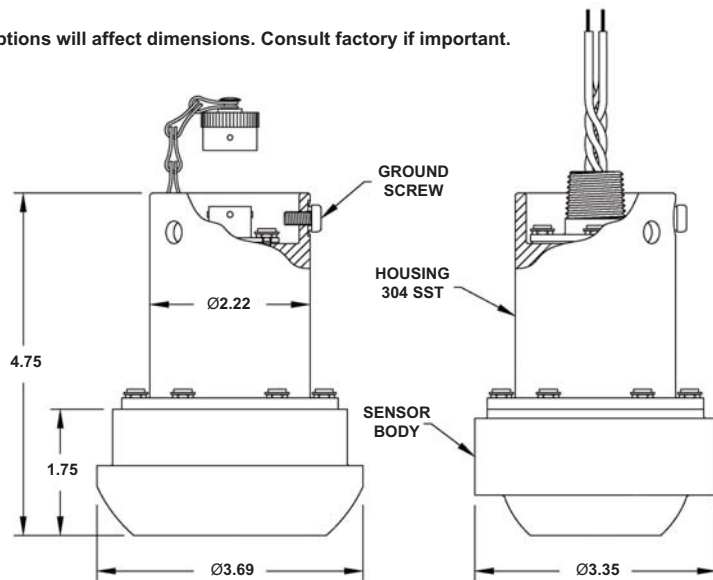
#### Identification:

Etched Housing

#### Weight:

Approx. 6lbs, options may affect weight

Some options will affect dimensions. Consult factory if important.



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

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

A5SL-70.00 Rev F



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## WECO® “HAMMER” UNION PRESSURE TRANSMITTER

### Models 170, 270, 370

Typical configurations (consult factory for more options)

#### MODELS

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

#### APPROVALS - 370 Series Only

AI	ATEX/IEC Intrinsic Safety
AN	ATEX/IEC Zone 2
EC	CE Marking
GI	ATEX/IEC/FM/CSA Intrinsic Safety
GN	ATEX/IEC/FM/CSA Div/Zone 2
I	FM/CSA Intrinsic Safety
N	FM/CSA Div/Zone 2

#### PROCESS CONNECTION

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

\* Material meets NACE MR0175 Guidelines

\*\* Non-Detachable Design

#### PRESSURE RANGE

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

#### ELECTRICAL CONNECTIONS

CA	Bendix 6-pin PTØ2E-10-6P (SST) (Standard on all models)
CF	1/2" NPT(M) with 18" 18 AWG MTW cable
DK	Glenair 4-pin GC379-2-14S-2P
DO	Jupiter RECM 10TPN04-16
DM	MS3102E 14S-2P
DP	4-Pin Brad Harrison style
DT4	4-Pin mini fast, 7/8-16 THD, Nickel Pltd. (Div 2 / Zone 2 only) (No Barrier required when used w/ approved mating cable) (Consult Factory for other electrical conn. for Zone 2/Div 2 units)

#### OPTIONS

GB	Alternate electrical output
GC	Special calibration run
GE	Improved Temperature Comp. (± 0.5% FSO/100° F for zero/span)
GG	Alternate shunt calibration signal
ME	80% Shunt Calibration
MR	Alternate wiring
NB	100% Powered Shunt (std on 370)
NG	Removable carrying handle
NH	Dual welded handle
NC	100% Unpowered Shunt Calibration (std on 170/270)
QX	Extended operation- 350° F process temperature
QY	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.