



# WECO® “HAMMER” UNION PRESSURE TRANSMITTER

## Model 170, 270, 370, 570

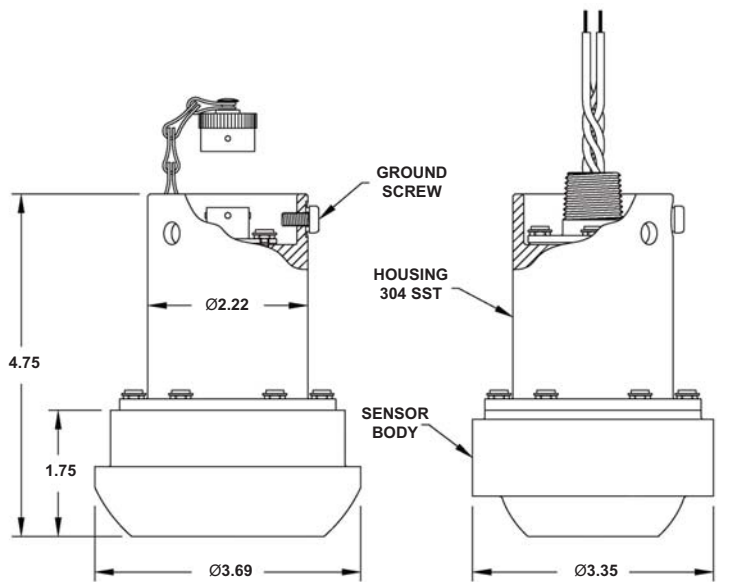
Designed specifically for use with either WECO® 2” 1502 or 2” 2002 Wing Union Fittings for the high pressure /vibration applications such as Cementing, Fracturing, Mud Pressure Measurement & Acidizing.

### 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



OIL AND GAS



2” #1502 CONFIGURATION (SHOWN WITH “CA” CONNECTOR)

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

Some options will affect dimensions. Consult factory if important.

## WIRING CODE

PIN	170/270	370	570
A/1	+ EXC.	+ EXC./SIGNAL	+ EXC.
B/2	- EXC.	- EXC./SIGNAL	- EXC.
C/3	+ SIGNAL	NC	SIG/J1939
D/4	- SIGNAL	CASE GROUND	SIG/J1939
E/5	+ SHUNT/CAL	+ SHUNT/CAL	NC
F/6	- SHUNT/CAL	- SHUNT/CAL	NC

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

A5SL-70.00 Rev D



# Pressure, Level & Temperature Transmitters & Transducers

Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

<b>Accuracy</b>	<b>(Static Error Band- Non-linearity, Hysteresis, Non-repeatability)</b> ≤0.25% FSO (RSS)			
<b>Zero Balance</b>	<b>(Model 170)</b> 0.0 mV/V ±1% FSO @ 10 Vdc	<b>(Model 270)</b> 0.0 V ±1% FSO @ 24 Vdc	<b>(Model 370)</b> 4.0 mA ±1% FSO @ 24 Vdc	<b>(Model 570)</b> CANbus J1939 @ 12Vdc
<b>Full Scale Output</b>	<b>(Model 170)</b> 3 mV/V	<b>(Model 270)</b> 5 Vdc	<b>(Model 370)</b> 16mA	<b>(Model 570)</b> J1939
<b>Temperature Limits</b>				
Compensated	-40°F to 180°F (-40°C to 80°C)			
Operating	-50°F to 190°F (-45°C to 85°C)			
<b>Temperature Compensation</b>				
Zero	Less than ±1.0% FSO/100°F			
Span	Less than ±1.0% FSO/100°F			
<b>Electricals</b>				
Excitation Voltage	<b>(Model 170)</b> 16 Vdc max	<b>(Model 270)</b> 9-36 Vdc	<b>(Model 370)</b> 9-36 Vdc*	<b>(Model 570)</b> 6-18 Vdc
Input Current	45 mA	8 mA	23 mA max	40 mA
Output Current	N/A	10 mA	23 mA max	N/A
Load Impedance	>10K ohms	> 5K ohms	N/A	N/A
Shunt Calibration	100% FSO ±0.2% by exciting Pins E and F			N/A
*10-28 Vdc for GI/AI/I approvals				
<b>Mechanicals</b>				
Proof Pressure	1.5 times pressure range			
Burst Pressure	3.0 times pressure range			
<b>Materials of Construction</b>				
Sensor	(See options below)			
Housing	300 Series SST			
<b>Connections</b>				
Pressure	WECO® 2" 1502 or WECO® 2" 2002/2202			
Electrical	Bendix PTØ2E-10-6P			
<b>Identification</b>				
Etched on housing				

## ORDERING GUIDE:

Ordering: Specify model, and pressure range and indicate modifications or accessories required. Use the following codes to identify desired item.

MODEL	APPROVAL	PROCESS CONNECTION	RANGE	OPTIONS/ELECTRICAL CONNECTIONS
●	-	-	-	●/●/●

Example: 370-A-R-Z-CA

### MODEL

170 3 mV/V  
270 0 - 5 Vdc  
370 4 - 20 mA  
570 CANbus J1939

### APPROVAL

I FM/CSA Intrinsic Safety - 370  
AI ATEX/IEC Intrinsic Safety - 370  
AN ATEX Zone 2  
GI ATEX/IEC/FM/CSA Intrinsic Safety - 370  
EC CE Marking - 370  
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

### 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 CONNECTION

CA Bendix 6-pin PTØ2E-10-6P (SST) (Standard and I/AI/GI)  
CF 1/2" NPT(M) with 18" 18 AWG MTW cable (N/AN/GN standard)  
DK Glenair 4-pin GC379-2-14S-2P  
DO Jupiter RECM 10TPN04-16  
DM MS3102E 14S-2P  
DP 4-Pin Brad Harrison (IR4ØØ6A2ØA12Ø1)

### 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, designate value on sales order  
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 350° F process temperature (-45°F to 185°F electronics)  
QY Remove shunt cal.

Consult factory for more 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