



HAMMER UNION PRESSURE TRANSMITTER

Model 170, 270, 370, 570

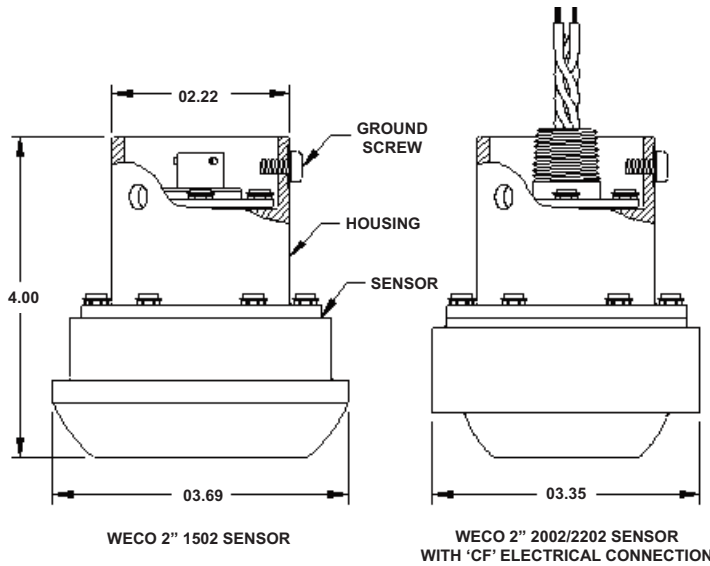
Designed specifically for use with either WECO® 2" 1502 or 2" 2002 Wing Union Fittings for the high pressure/vibration applications such as Cementing, Fracturing, Mud Pressure Measurement and Acidizing.

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



Some options will affect dimensions. Consult factory if important.

WIRING CODE

PIN	170/270	370	570
A/1	+ EXCIT.	+ EXCIT./SIGNAL	+ EXCIT.
B/2	- EXCIT.	- EXCIT./SIGNAL	- EXCIT.
C/3	+ SIGNAL	NC	SIG/J1939
D/4	- SIGNAL	NC	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.



Pressure, Level & Temperature Transmitters & Transducers

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

Accuracy	(Static Error Band- Non-linearity, Hysteresis, Non-repeatability) ≤0.25% FSO (RSS)			
Zero Balance	(Model 170) 0.0 mV/V ±1% FSO at 10 Vdc	(Model 270) 0.0 V ±1% FSO at	(Model 370) 4.0 mA ±1% FSO at 24 Vdc	(Model 570) CANbus J1939 at 12Vdc
Full Scale Output	(Model 170) 3 mV/V	(Model 270) 5 Vdc	(Model 370) 20 mA	(Model 570) J1939
Temperature Limits	Compensated -40°F to 180°F (-40°C to 80°C) Operating -50°F to 190°F (-45°C to 85°C)			
Temperature Compensation	Zero Less than ±1.0% FSO/100°F Span Less than ±1.0% FSO/100°F			
Electricals	(Model 170)	(Model 270)	(Model 370)	(Model 570)
Excitation Voltage	16 Vdc max	10-36 Vdc	10-36 Vdc	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
Mechanicals	Proof Pressure 1.5 times pressure range Burst Pressure 3.0 times pressure range			
Materials of Construction	Sensor Inconel X750 (Inconel 718 available for NACE MR0175 compliance) Housing 316 SST			
Connections	Pressure WECO® 2" 1502 or WECO® 2" 2002/2202 Electrical Bendix PT1H-10-6P			
Identification	Etched on housing			

ORDERING GUIDE:

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

MODEL

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

APPROVAL

Z CSA Intrinsic Safety, Class I Division 1, Groups A-G
I Pending: FM/CSA Intrinsic Safety - 370
AI Pending: ATEX/IEC Intrinsic Safety - 370
EC Pending: CE marking - 370

PROCESS CONNECTION

A WECO® 2" 1502 Inconel X750
B WECO® 2" 2002 Inconel X750
C WECO® 2" 2202, Inconel 718 for NACE MR0175 compliance
D WECO® 2" 1502, Inconel 718 for NACE MR0175 compliance
G WECO® 2" 1502 SST Meets NACE Guidelines *
H WECO® 2" 2002 SST Meets NACE Guidelines *

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

* For approved units, consult factory

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.

ELECTRICAL CONNECTION

CA Bendix 6-pin PT1H-10-6P (standard)
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 19S-2P
DK 4-Pin Brad Harrison

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

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