HAMMER UNION PRESSURE TRANSDUCER / TRANSMITTER

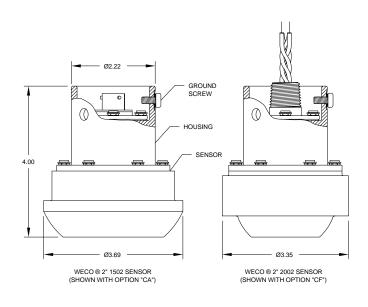
Models 170, 270, 370

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



FEATURES:

- 8-gage sensor design to diminish "clamping effects" of Wing Union
- Inconel X-750 sensor material
- Tapered sensor cavity
- 316SST housing
- RFI protection
- Recessed connector for protection
- Optional carrying handle (removable)
- ≤ 0.25% static accuracy
- Standard 80% shunt calibration
- Consult factory for custom options





STANDARD PIN CONNECTIONS

6-PIN BENDIX, PTIH-10-6P (CONSULT FACTORY FOR PIN CONNECTIONS OF ALTERNATE CONNECTOR CONFIGURATIONS)

OPTION "CA"

PIN	MODEL 170 & 270	MODEL 370	
Α	+ EXCITATION	+ EXCITATION/SIGNAL	
В	- EXCITATION	- EXCITATION/SIGNAL	
С	+ SIGNAL	NO CONNECT	
D	- SIGNAL	NO CONNECT	
Е	+ SHUNT/CALIBRATION	+ SHUNT/CALIBRATION	
F	- SHUNT/CALIBRATION	- SHUNT/CALIBRATION	

Units are in inches, some options will affect dimensions. Consult factory if important.

SPECIFICATIONS

Unless otherwise stated, these specifications are the standards to which the units are normally constructed. Alterations may be easily and readily accomplished by the standard modification code or by discussion with the factory. We invite your inquiry.

Accuracy						
Static Error Band	≤ 0.25% FSO (RSS) (Non-linearity, Hysteresis, Non-repeatability)					
Zero Balance						
Model 170	0.0 mV/V \pm 1% FSO @ 10 Vdc (\pm 0.25% FSO available, option "HE")					
Model 270	$0.0 \text{ V} \pm 1\% \text{ FSO } @ 24 \text{ Vdc}$ ($\pm 0.25\% \text{ FSO available, option "HE"})$					
Model 370	4.0 mA \pm 1% FSO @ 24 Vdc (\pm 0.25% FSO available, option "HE")					
Full Scale Output						
Model 170	3 mV/V					
Model 270	5 Vdc					
Model 370	20 mA					
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					
Excitation Voltage	16 Vdc max 10-36 Vdc 10-36 Vdc					
Input Current	45 mA 8 mA 23 mA max					
Output Current	N/A 10 mA 23 mA max					
Load Impedance	> 10k ohms $>$ 5K ohms N/A					
Mechanicals						
Proof Pressure	1.50 times pressure range*					
Burst Pressure	3.00 times pressure range*					
Materials of Construction						
Sensor	Inconel X-750					
Housing 316 Stainless Steel						
Connections						
Pressure	WECO® 2" 1502 or WECO® 2" 2002					
Electrical Bendix PTIH-10-6P						
Identification Electro-chemically etched on housing						

ORDERING GUIDE

Ordering: Specify model, and pressure range and indicate modifications or accessories required.

MODEL	SENSOR STYLE	RANGE	OPTIONS
• -	• -	• -	- •/•/•

Example: 370-A-SB-ME/CA

Use the following codes to identify desired item:

MODEL

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

SENSOR STYLE

A WECO® 2" 1502 B WECO® 2" 2002

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

PRESSURE RANGE*

RV 5000 psig RW 6000 psig RX 7500 psig RZ 10000 psig SB 15000 psig SD 20000 psig

OPTIONS

HE Improved Zero Balance

ME 80% Shunt Calibration (Standard)

GH 100% Shunt Calibration

CONNECTORS

CA Bendix 6-pin PTIH-10-6P (Standard)
CF 1/2" NPT with 18" 18AWG MTW cable

DK Glenair 4-pin GC379-2-14S-2P (shunt calibration not available for Models 170 and 270)

Consult factory for more options, such as Carrying Handle, Optional Materials, Alternate Connectors and Replacement Fasteners.

^{*} Consult WECO® Union Manufacturer for published pressure maximums