

Wing Union Pressure Transmitters

Model 425 & 424

LONG LIFE X-750 MATERIAL

RUGGED, ROBUST DESIGN

AVAILABLE IN BOTH 1502 & 2202
2" WING UNION SIZES

RFI/EMI PROTECTED

INTRINSICALLY SAFE

QUICK DELIVERY & SERVICE

0.2% ACCURACY

Now with optional
temperature sensing
capability!



Model 425
(1502 fitting)

Model 424
(2202 fitting)

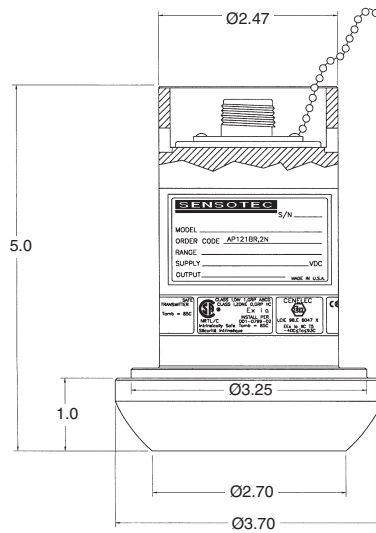
The Models 425 and Model 424 Wing Union Pressure Transmitters are extremely rugged sensors designed specifically for use with both 1502 and 2202 two-inch wing unions in the demanding environment of high-pressure applications for both land-based and off-shore installations.

The isolated pressure sensing diaphragm minimizes zero shift during hammer-up and eliminates long-term signal drift in the field. The sensor diaphragm and wing union fitting are machined as one part. The Model 425 and 424 are constructed as an all-welded assembly using a deep penetration, proprietary, electron beam welding process which also ensures hermetic integrity for

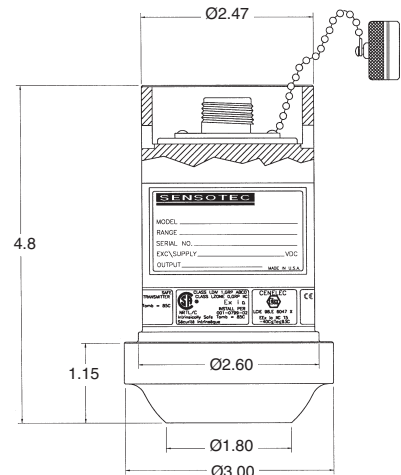
all field conditions. These transmitters incorporate special assembly processes to vibration and shock proof the components to ensure performance is maintained during the rigors of fracturing and cementing applications.

The 1502 and 2202 wing union compatible fittings are machined of Inconel X-750 providing service with highly abrasive and corrosive media. Both configurations comply with NACE Standard MR-01-75 (1980) for corrosive service.

The unique modular design of these models, Sensotec's supply chain management system, and specialized production area assure quick delivery for many standard configurations. SENSOTEC'S repair and calibration departments are geared up to support customers needing fast response and timely turnaround for transmitters damaged during use or in need of recalibration.



Model 425



Model 424

Applications

- Mud Logging
- Cementing
- Drilling
- Wellhead Measurement
- Fracturing
- Acidizing

Specifications

		Model 425 (1502 fitting) Order Code BP425	Model 424 (2202 fitting) Order Code BP424
PERFORMANCE	Accuracy.....	±0.2% BFSL	
	Repeatability.....	0.1% Full Scale Output	
ENVIRONMENTAL	Temperature, Operating.....	-45°F to +200°F (-43°C to +93°C)	
	Temperature, Compensated.....	-30°F to +180°F (-35°C to +80°C)	
	Temperature Effect on Zero.....	≤0.01% F.S./°F (≤0.018% F.S./°C)	
	Temperature Effect on Span.....	≤0.01% Rdg/°F (≤0.018% Rdg/°C)	
ELECTRICAL	Supply Voltage.....	9 - 28 Volts DC	
	Output (Standard).....	4-20mA (2-Wire) Full Scale	
	Insulation Resistance.....	≥ 100 Megaohms at 50 VDC	
	Maximum Loop Resistance.....	950 Ohms at 28 Volts Decreasing Linearly to 0 Ohms at 9 Volts	
	Circuit Protection.....	Reverse Polarity Protection of Supply Leads	
	RFI/EMI Protection.....	Noise Immunity from 5000 Hz to 1.0 GHz	
	Electrical Connection (standard).....	MS-3102E-14S-2P, 4-Pin Stainless Steel Hermetic	
	Frequency Response.....	Customer Specified and Factory Installed Filter for Frequency Response of Min. 10 Hz to Max of 2500 Hz (1.4 x 10 ⁻⁴ Sec.)	
	“Zero” and “Span” Adjustment.....	Field Adjustable by removing connector	
	CE Marked.....	Yes	
MECHANICAL	Pressure Ranges.....	0-5000 psi; 0-6000 psi; 0-10,000 psi; 0-15,000 psi	
	Safe Overpressure.....	0-20,000 psi 1.5 Times Rated Full Scale Pressure or Limit of the WECO 1502 Fitting	
	Burst Pressure.....	2.5 Times Rated Pressure or Limit of WECO Fitting	
	Pressure Fitting.....	©WECO 1502/2202 Wing Union, 2” Pipe, Male Sub End	
	Wetted Parts, Material.....	Inconel X-750	
AMPLIFIER CERTIFICATIONS	CSA Approved.....	CLASS I, Div 1, GRP ABCD CLASS I, ZONE 0, GRP IIC Exia Install per 001-0799-02 Tamb = 85°C NRTL/C Intrinsically Safe	
	CENELEC Approved.....	LCIE 98.E 6047 X Eex ia IIC T5 -40° ≤ Ta ≤ 93°C	
	FM Approved Intrinsically Safe.....	CLASS I, II, III, Div 1 Groups ABCDEFG Tamb = 85°C	
PHYSICAL	Connector/Mating Connector.....	NEMA 4x	
	Weight.....	6 Pounds	
	Labels.....	Welded Stainless Steel with Embossed Characters Serial Number Scribed into Housing for Permanent ID	
OPTIONS	Mechanical Connector Guard.....	Stainless Steel	
	Carrying Handles/Connector Guards.....	Consult Factory to Select from the Variety of Handles or Connector Guards	
	Frequency Response Filter.....	Customer Specified and Factory Installed Filter for Frequency Response of Min. 10Hz to Max of 2500 Hz (1.4 x 10 ⁻⁴ Mil sec.)	
	Shunt Calibration.....	Buffered Remote Activated with Optical Isolator Available. (Intrinsically Safe Approval is Pending)	
	DNV Approval.....	Available	
	Customer-specified Wiring Codes & Electrical Connectors.....	Available. Consult Factory.	
	Temperature Sensing Options.....	Option 45c: RTD output direct to connector. Gives temperature as a resistance reading. Intrinsically Safe. Option 45d: RTD with temperature as a 4-20mA output. Not Intrinsically Safe.	

PRESSURE WING UNION

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