

## Pressure Transmitters

### FEATURES

- Ranges to 15,000 psi (0–1,000 bar)
- <0.25% accuracy, combined error
- 4–20 mA two-wire output
- ATEX I.S. certification
- Ultra-rugged stainless steel construction
- NACE MR-01-75 (sour gas) compliant
- Completely modular serviceable design
- RFI / EMC immunity compliance
- **Optional feature**
  - 22,500 psi secondary-containment

### APPLICATIONS

- Mud pressure measurement
- M.W.D. surface sensor
- Kill/Choke manifold pressure
- Mud logging and production test pressure

### DESCRIPTION

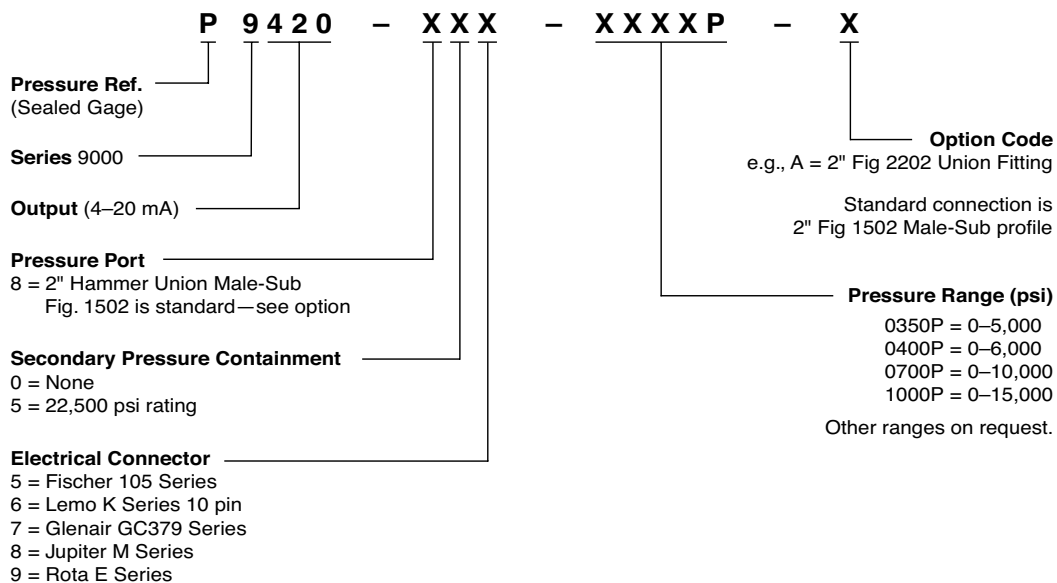
A further development in the range of Hammer-Lug Union fitting Pressure Transmitters, this extension of the P9420 series offers fused ceramic sensors, high shock and vibration immunity, and other benefits. All units are built



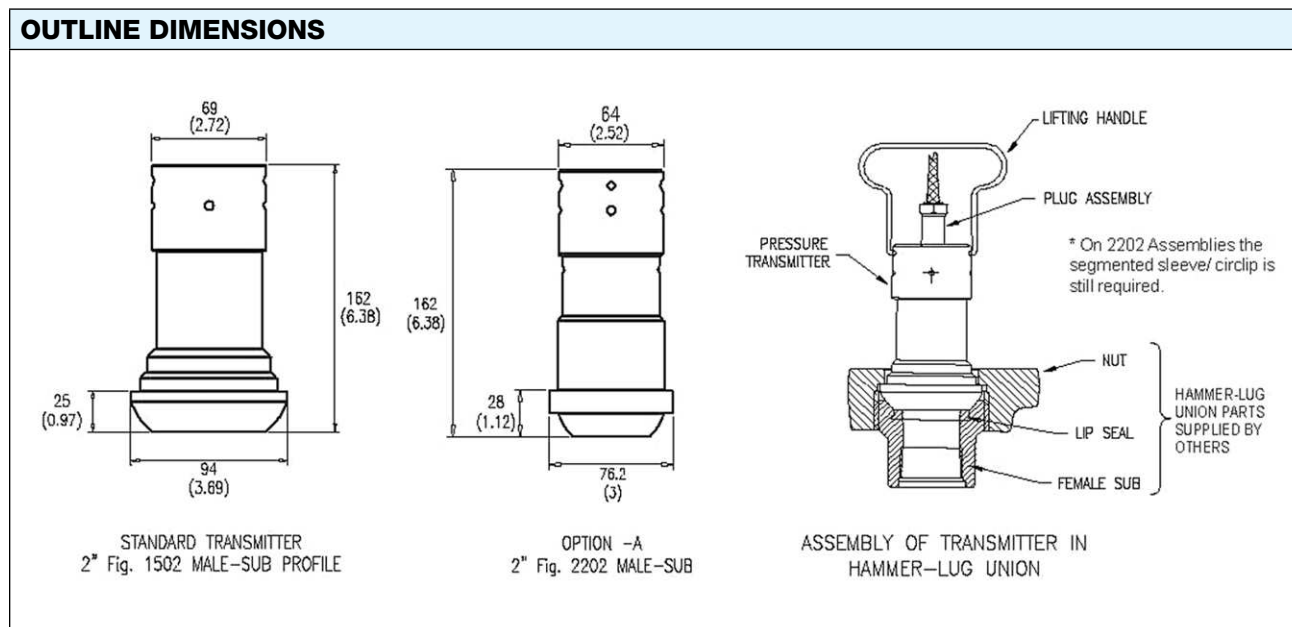
within a male-sub casing that allows optional secondary pressure containment up to the proof rating of the union assembly.

British built with a two-year warranty, the P9420-800 transmitters are available with a wide variety of connector options to meet your system requirements.

### ORDERING INFORMATION



Pressure Transmitters



PARAMETER		VALUE	
<b>Ranges</b>		0-5,000, 0-6,000, 0-10,000, 0-15,000 psi (others to order)	
<b>PERFORMANCE</b>			
<b>Accuracy</b>		<0.25% span	
<b>Stability</b>		<0.1% span per year	
<b>Rise time to full scale</b>		<2 ms	
<b>Temperature effects on zero balance</b>		±0.008% span/°C	
<b>Temperature effects on rated output</b>		±0.008% span/°C	
<b>Temperature range</b>		Compensated: -10°C to +90°C; storage: -30°C to +100°C	
<b>ELECTRICAL</b>			
<b>Output</b>		4-20 mA, two wire	
<b>Full scale output (FSO)</b>		20 mA ±0.16 mA	
<b>Zero pressure output</b>		4 mA ±0.16 mA	
<b>Supply voltage</b>		12-28 VDC	
<b>Loop resistance</b>		100 Ω-900 Ω	
<b>Insulation resistance</b>		>500 MΩ @ 500 VRMS	
<b>PARAMETER</b>		<b>VALUE</b>	
<b>MECHANICAL</b>			
<b>Safe overpressure</b>		150% range	
<b>Secondary containment of pressure within case (85X only)</b>		22,500 psi (all ranges)	
<b>Minimum burst pressure</b>		300% range (<10,000 psi), 250% range (15,000 psi)	
<b>Effect of union make-up on FSO</b>		Negligible	
<b>Wetted parts material</b>		Al <sub>2</sub> O <sub>3</sub> UNS S31803 Duplex Stainless Steel	
<b>Weight (transmitter only)</b>		4 kg (8.8 lb)	
<b>ENVIRONMENTAL</b>			
<b>Protection</b>		IP68 BS5490: 1977, IEC 529: 1976	
<b>RFI / EMC immunity</b>		Tested to IEC 801-3 Parts 2, 3, 4 and 6 EN 50082-2	
<b>Intrinsic safety certification</b>		EXia IIc T4 Sira 02ATEX2386X	
<b>MEDIA COMPLIANCE</b> —NACE MR-01-75 Rev03 Sour Gas rated			
<b>SHOCK / VIBRATION</b> —IEC 68 Test Ea 100 g / 6 ms, 3 axes; Test Fc 10-800 Hz, 5 g, 3 axes			

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