

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

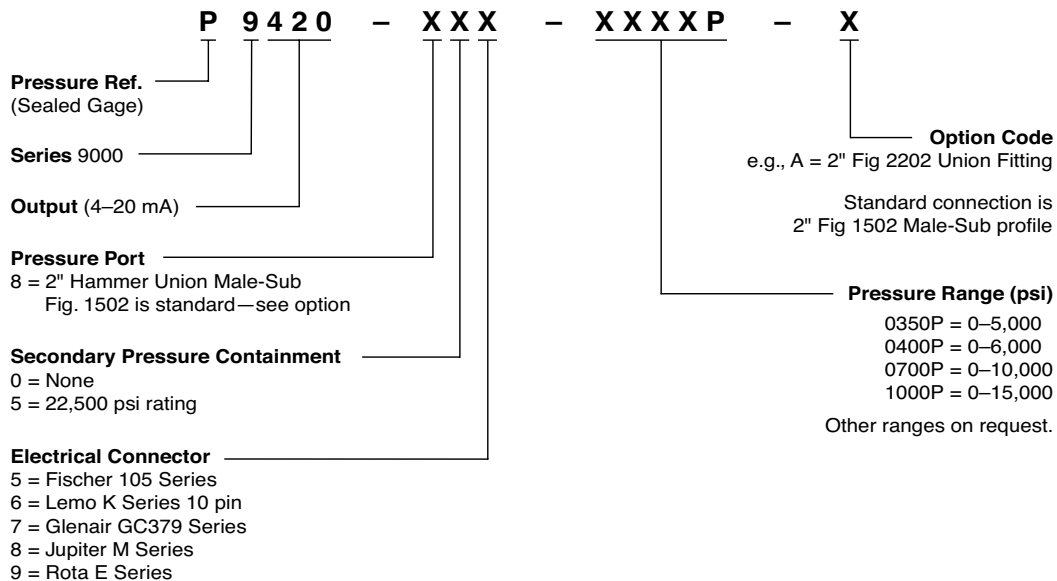
A further development in the range of Hammer-Lug Union fitting Pressure Transmitters, this extension of the P9420 series offers fused ceramic sensors, high shock and vibration immunity, and other benefits. All units are built



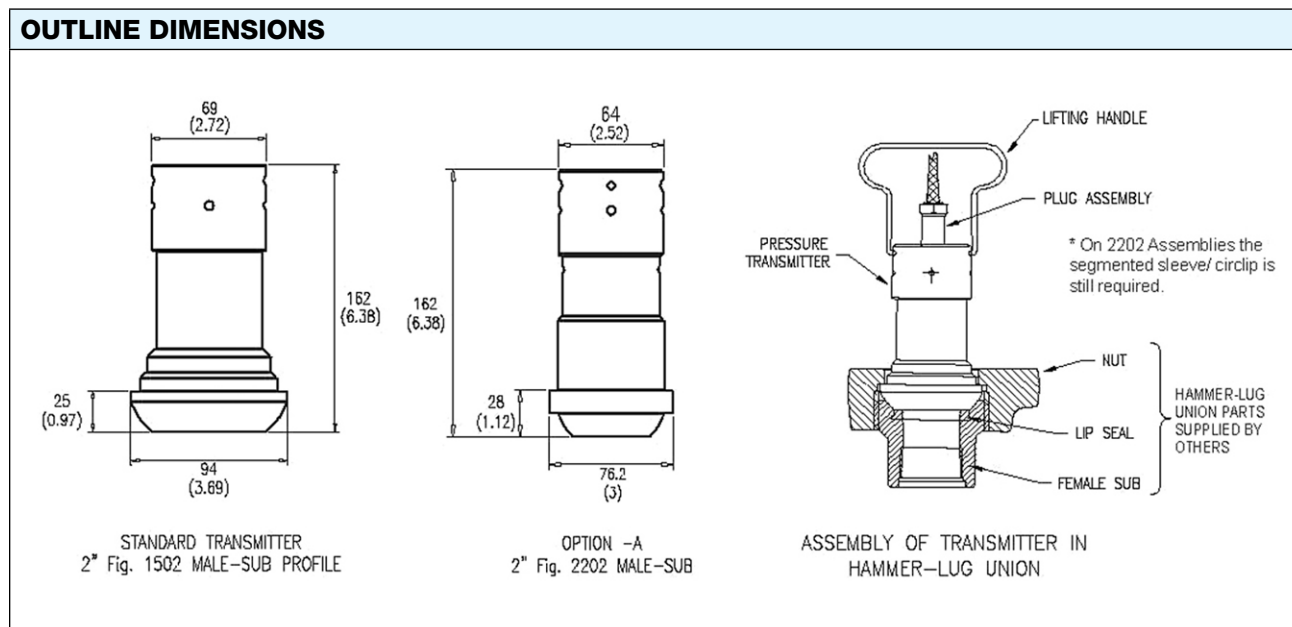
within a male-sub casing that allows optional secondary pressure containment up to the proof rating of the union assembly.

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



SPECIFICATIONS	
PARAMETER	VALUE
Ranges	0–5,000, 0–6,000, 0–10,000, 0–15,000 psi (others to order)
PERFORMANCE	
Accuracy	<0.25% FSO combined error, non-linearity, hysteresis and repeatability
Stability	<0.1% FSO per year
Rise time to full scale	<2 ms
Temperature effects on zero balance	±0.008% FSO/°C
Temperature effects on rated output	±0.008% FSO/°C
Temperature range	Operational: –30°C to +90°C; storage: –40°C to +120°C
ELECTRICAL	
Output	4–20 mA, two wire
Full scale output (FSO)	20 mA ±0.08 mA
Zero pressure output	4 mA ±0.08 mA
Supply voltage	12–28 VDC
Loop resistance	100 Ω–900 Ω
Insulation resistance	>500 MΩ @ 500 VRMS
MECHANICAL	
Safe overpressure	150% range
Secondary containment of pressure within case (85X only)	22,500 psi (all ranges)
Minimum burst pressure	300% range (<10,000 psi), 250% range (15,000 psi)
Effect of union make-up on FSO	Negligible
Wetted parts material	Al ₂ O ₃ UNS S31803 Duplex Stainless Steel
Weight (transmitter only)	4 kg (8.8 lb)
MOUNTING —Replaces Male-Sub component within 2" Fig 1502 and 2202 Hammer Lug unions (see Tech Note 943 for details of Hammer Lug union assembly)	
ENVIRONMENTAL	
Protection	IP68 BS5490: 1977, IEC 529: 1976
RFI / EMC immunity	Tested to IEC 801-3 Parts 2, 3, 4 and 6 EN 50082-2
Intrinsic safety certification	EXia IIc T4 Sira 02ATEX2388X
MEDIA COMPLIANCE —NACE MR-01-75 Rev03 Sour Gas rated	
SHOCK / VIBRATION —IEC 68 Test Ea 100 g / 6 ms, 3 axes; Test Fc 10–800 Hz, 5 g, 3 axes	

BLH Nobel is continually seeking to improve product quality and performance. Specifications may change accordingly.