PRESSURE







35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001

Explosion-Proof Pressure Transmitters



FEATURES

- Accuracy to ±0.25 % Full Scale (Best Fit Straight Line)
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- Welded 316 stainless steel, and Elgiloy
- 1/2" NPT conduit connection
- NACE MR-01-75 compliant
- Low power voltage outputs available

APPLICATIONS

- Hydraulic and pneumatic systems
- Pumps and compressors
- Test equipment and systems
- HVAC systems
- Power generation
- Water and wastewater
- Refrigeration equipment
- Laboratory and test equipment
- Chemical/Petrochemical
- Marine
- Pipeline gas compressors
- Oil field
- Offshore

SERIES **621/622**

HAZARDOUS ENVIRONMENT APPROVED PRESSURE TRANSMITTERS

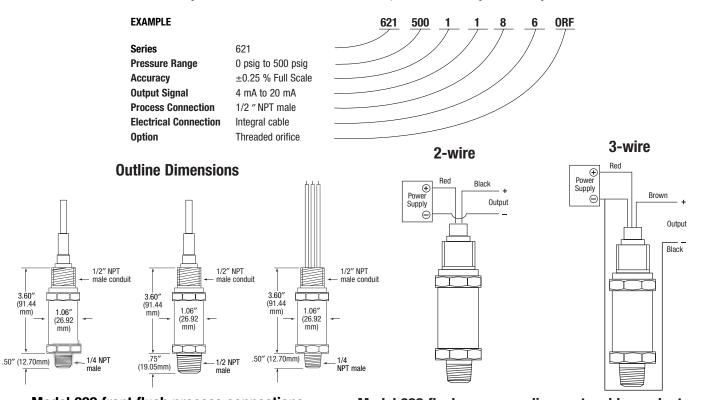
The NOSHOK Series 621 and 622 pressure transmitters combine the reliability and long life of diffused semiconductor and sputtered thin film strain gage sensors with safe electronics for outstanding performance and value. These transmitters were designed for applications that require pressure measurement in hazardous environments. All wetted parts are made of stainless steel and Elgiloy welded with no internal 0-rings, gaskets or seals.

These transmitters are available with a wide variety of pressure ranges to suit most applications. All units undergo extensive testing during the manufacturing process to ensure that the highest performance is achieved in the demanding environments found in today's applications. The transmitters are available with a standard threaded connection as well as a flush diaphragm configuration and are Factory Mutual approved. All models incorporate significant levels of RFI, EMI and ESD protection.

	SPECIFICATIONS				
Output signals	4 mA to 20 mA, 2-wire; 1 Vdc to 5 Vdc, 3-wire; .5 Vdc to 4.5 Vdc, 3-wire				
Accuracy	±0.25 % Full Scale (Best Fit Straight Line), including the effects of linearity, hysteresis and repeatability				
Hysteresis	≤ ±0.1 % Full Scale				
Repeatability	≤ ±0.05 % Full Scale				
Stability	≤ ±0.2 % Full Scale for 1 year, non-accumulating				
Pressure ranges	Standard ranges from vacuum to 15000 psi				
Proof pressure	3 times Full Scale for ranges 0 psi to 15 psi through 0 psi to 200 psi 1.75 times Full Scale for ranges 0 psi to 300 psi through 0 psi to 10000 1.5 times Full Scale for 0 psi to 15000 psi range				
Burst pressure	3.8 times Full Scale for ranges 0 psi to 15 psi through 0 psi to 200 psi 4 times Full Scale for ranges 0 psi to 300 psi through 0 psi to 10000 psi 3 times Full Scale for 0 psi to 15000 psi range				
Power supply	10 Vdc to 30 Vdc unregulated, for 4 mA to 20 mA output, 6 Vdc to 30 Vdc 1 Vdc to 5 Vdc low power and .5 Vdc to 4.5 Vdc low power (\le 2 mA for Power Supply \le 12 Vdc) output				
Load limitations	≤ (VPower–10)/0.020 Amp for 4 mA to 20 mA ≥ 10,000Ω for 1 Vdc to 5 Vdc, 3-wire				
Zero/Span offset	≤ 0.5 % Full Scale				
Response time	≤1 ms (between 10 % and 90 % Full Scale)				
Durability	>100,000,000 Full Scale cycles				
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Zero effect is ± 0.011 % Full Scale/°F Span effect is ± 0.011 % Full Scale/°F Ambient -22 °F to 212 °F (-30 °C to 100 °C); -58 °F to 220 °F optional Media -25 °F to 212 °F (-32 °C to 100 °C); -58 °F to 220 °F optional Storage -40 °F to 212 °F (-40 °C to 100 °C)				
Wetted materials	Model 621 is 316 stainless steel for ranges up through 0 psi to 300 psi, 316 stainless steel with Elgiloy ranges 0 psig to 500 psig and higher; Model 622 is 316 stainless steel with BUNA N 0-ring; (Viton® 0-ring optional)				
Housing material	316 stainless steel				
Environmental rating	NEMA 4x (IP67)				
Electromagnetic rating	RFI, EMI and ESD protection				
Electrical rating	Reverse polarity, over-voltage and short circuit protected				
Shock	1000 g's according to IEC 770 for mechanical shock				
Vibration	20 g's according to IEC 770 under resonance conditions				
Hazardous approvals	Factory Mutual approved Explosion-proof with entity approve for: Class I, Division 1, Groups A, B, C and D Dust Ignition-proof with entity approval for class II/III, Division 2, Groups E, F and G Maximum electrical ratings 30V, 20 mA				
Weight	Approximately 7 oz.				

ORDERING INFORMATION								
Series 621	Stainless steel threaded connection	Series 622S 316 stainles	s steel flush diaphragm	Series 622H Hasta	lloy C flush diaphragm			
PRESSURE RANGES	-30 inHg to 0 psig -30 inHg to 30 psig -30 inHg to 60 psig -30 inHg to 100 psig 0 psig to 15 psig psig = Gauge Pressure NOTE: Series 622 is availa	30V 0 psig to 30 psig 30/30 0 psig to 60 psig 30/60 0 psig to 100 psig 30/100 0 psig to 200 psig 15 0 psig to 300 psig psia = Absolute Pressure able for pressure ranges up to 0 psig	60 0 psig t 100 0 psig t 200 0 psig t 300 0 psig t Other ranges available on sp	to 1000 psig 10 to 1500 psig 11 to 2000 psig 20 to 3000 psig 30	500 0 psig to 5000 psig 000 0 psig to 8000 psig 500 0 psig to 10000 psig 000 0 psig to 15000 psig 000 0 psia to 15 psia 0 psia to 100 psia	5000 8000 10000 15000 15A 100A		
ACCURACY	1 ±0.25 % Full Scale (Best Fit Straight Line)							
OUTPUT SIGNALS 1 4 mA to 20 mA, 2-wire 3 1 Vdc to 5 Vdc, 3-wire, Low Power 31 .5 Vdc to 4.5 Vdc 3-wire, Low Power								
PROCESS CONNECTIONS 2 1/4 " NPT male 3 7/16 "-20 UNF SAE #4 male 11 G1/2B male flush (model 622 only) (pressure ranges 0 psi to 30 psi and higher)		1:	8 1/2 " NPT male 13 G1B male flush (model 622 only) (pressure ranges less than 0 psi to 30 psi)					
ELECTRICAL CONNECTIONS 6 1/2 " NPT male conduit		T male conduit with 6 foot integral	cable. 3	37 1/2 " NPT male conduit with 6 foot flying leads				
OPTIONS	ORF Threaded	d Orifice (model 621 only)						

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.



Model 622 front flush process connections

Model 622 flush corresponding port weld-on adapters

For ranges 0 psi to 30 psi and higher For ranges less than 0 psi to 30 psi For ranges 0 psi to 30 psi and higher For ranges less than 0 psi to 30 psi

