Explosion-Proof Pressure Transmitters









FEATURES

- Accuracy to ±0.25 % Full Scale (BFSL)
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- Welded 316 stainless steel, and Elgiloy
- 1/2" NPT conduit connection
- NACE MR0175/ISO 15156 compliant
- ANSI/ISA-12.27.01-2003 Approved single seal
- 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 LOCATION 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 O-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 (BFSL); (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)						
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 psi 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 for 1 Vdc to 5 Vdc low power and .5 Vdc to 4.5 Vdc low power (\leq 2 mA for Power Supply \leq 12 Vdc) output, unregulated						
Load limitations	\leq (VPower-10)/0.020 Amp for 4 mA to 20 mA \geq 10,000 Ω 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); -46 °F to 220 °F optional Media -25 °F to 212 °F (-32 °C to 100 °C); -46 °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, 31 stainless steel with Elgiloy ranges 0 psig to 500 psig and higher; Model 62: 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 and CSA 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 1, Groups E, F and G Maximum electrical ratings 30V, 20 mA ANSI/SA-12.27.01-2003, Approved single seal						
Weight	Approximately 12 oz.						

ORDERING INFORMATION										
SERIES 621	Stainless steel threaded connection	622S	316 stainless steel flu	ısh diaphragm	622H Hastelloy C flu	ısh diaphragm	ı			
PRESSURE RANGES	-30 inHg to 0 psig -30 inHg to 30 psig -30 inHg to 60 psig -30 inHg to 100 psig -30 inHg to 200 psig psig = Gauge Pressure NOTE: Series 622 is availal			•	0 psig to 300 psig 0 psig to 500 psig 0 psig to 1000 psig 0 psig to 1500 psig 0 psig to 2000 psig 0 psig to 3000 psig on special request	300 500 1000 1500 2000 3000	O psig to 5000 psig O psig to 6000 psig O psig to 8000 psig O psig to 10000 psig O psig to 15000 psig O psia to 15 psia O psia to 100 psia	5000 6000 8000 10000 15000 15A 100A		
ACCURACY	1 ±0.25 % Full S	cale (BFSL)								
OUTPUT SIGN	ALS 1 4 mA to 20 mA, 2-wire 5 0 Vdc to 10 Vdc, 3-wire			2 0 Vdc to 5 Vdc, 3-wire 3 31 .5 Vdc to 4.5 Vdc 3-wire, Low Power			3 1 Vdc to 5 Vdc, 3-wire, Low Power			
PROCESS2 1/4 " NPT Male8 1/2 " NPT MaleCONNECTIONS13 G1B Male flush (model 622 only) (pressure ranges 0 psi to 30 psi and higher)						11	11 G1/2B Male flush (model 622 only) (pressure ranges less than 0 psi to 30 psi)			
ELECTRICAL CONNECTIONS 6 1/2 " NPT Male conduit with 6 foot integral cable 37 1/2 " NPT Male conduit with 6 foot flying leads with epoxy seal										
OPTIONS	ORF Threaded Orific	20 20 ' cable/lead (attached to options 6 or 37) 30 30 ' cable/lead (attached to options 6 or 37)								

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

