Intrinsically Safe Pressure Transmitters









FEATURES

- Accuracy to ±0.125 % Full Scale (Best Fit Straight Line)
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- Welded 316 stainless steel, optional Hastelloy C4 on flush diaphragm model
- 1/2 " NPT conduit connection
- Entity approved for use with all approved zener barriers where required
- ANSI/ISA-12.27.01-2003 Approved single seal

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

NOSHOK Model 625 and 626 transmitters are approved for use in hazardous location applications as follows:

Intrinsically Safe, entity approval for Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; and Class I, Zone 0 Aex ia IIC Dust Ignition-proof for Class II and III, Division 1, Groups E, F and G

Non incendive for Class I, Division 2, Groups A, B, C and D FMRC 3600, 3610, 3611, 3810 (including supplement #1), ISA-S12.0. 01, IEC 60529 (including amendment #1)

SERIES 625/626

HAZARDOUS LOCATION PRESSURE TRANSMITTERS

The NOSHOK Series 625 and 626 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 (Hastelloy® C4 optional on front flush model), welded with no internal O-rings, gaskets or seals.

These transmitters are available with a wide variety of pressure connections, ranges and electrical connections 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 standard threaded connections as well as flush diaphragm configurations and are Factory Mutual and Canadian Standards Association approved. All models incorporate significant levels of RFI, EMI and ESD protection.

	SPECIFICATIONS						
Output signal	4 mA to 20 mA, 2-wire						
Accuracy	± 0.25 % Full Scale (Best Fit Straight Line), including the effects of linearity, hysteresis and repeatability ± 0.125 % Full Scale accuracy optional						
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 60000 psi						
Proof pressure	3.5 times Full Scale for ranges 0 psi to 5 psi through 0 psi to 200 psi 2 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 1.2 times Full Scale for ranges 0 psi to 25000 psi and 0 psi to 60000 psi						
Burst pressure	4 times Full Scale for ranges 0 psi to 5 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 2 times Full Scale for ranges 0 psi to 25000 psi and 0 psi to 60000 psi						
Power supply	10 Vdc to 30 Vdc unregulated Minimum voltage across transmitter connections is 10 Vdc						
Load limitations	≤ (VPower–10)/0.020 Amp						
Response time	≤ 1 ms (between 10 % and 90 % Full Scale)						
Durability	> 100,000,000 Full Scale cycles						
Adjustment	± 10 % Full Scale for zero and span						
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 625 is 316 stainless steel for ranges up through 0 psi to 300 psi, 316 stainless steel with 17-4PH stainless steel diaphragm for ranges 0 psi to 300 psi and higher: Model 626 is 316 stainless steel with BUNA N 0-ring; Hastelloy® C4 optional; Viton® 0-ring optional						
Housing material	316 stainless steel						
Environmental rating	IP65 to IP67 depending upon electrical connection						
Electromagnetic rating	Meets EMC norm EN61326: 1997/A1 1998 RFI, EMI and ESD protected						
Electrical rating	Reverse polarity, over-voltage and short circuit protected						
Shock	1000 g's according to IEC770 for mechanical shock						
Vibration	20 g's according to IEC770 under resonance conditions						
Hazardous approvals	Factory Mutual and Canadian Standards Association approved as indicated ANSI/ISA-12.27.01-2003, Approved single seal						
Weight	Approximately 7 oz.						

ORDERING INFORMATION											
SERIES 625	Stainless steel threade	ed conne	ction Series 6265	316	stainless steel flush diap	ohragm	Serie	es 626H	Hastelloy flush diaphragi	m	
PRESSURE RANGES	0 in H_2 0 to 50 in H_2 0 0 in H_2 0 to 100 in H_2 0 -30 in H_3 0 to 100 in H_3 0 -30 in H_3 0 to 30 psig -30 in H_3 0 to 60 psig -30 in H_3 0 to 150 psig -30 in H_3 0 to 150 psig psig = Gauge Pressure	50 IN 100 IN 30V 30/30 30/60 30/100 30/150 30/200 e psia =	O psig to 30 psig O psig to 50 psig O psig to 100 psig O psig to 150 psig	2 3 5 15 30 50 100 150 ranges av	O psig to 200 psig O psig to 300 psig O psig to 500 psig O psig to 500 psig O psig to 750 psig O psig to 1000 psig O psig to 1500 psig O psig to 2000 psig O psig to 3000 psig atilable on special reques	200 300 500 750 1000 1500 2000 3000	0 psig to 5000 psig 0 psig to 8000 psig 0 psig to 10000 psig 0 psig to 15000 psig 0 psig to 15000 psig 0 psig to 40000 psig 0 psig to 60000 psig	5000 8000 10000 15000 25000 40000 for pressi	0 psia to 30 psia 0 psia to 60 psia 0 psia to 100 psia 0 psia to 150 psia 0 psia to 200 psia 0 psito 300 psia	15A 30A 60A 100A 150A 200A 300A	
ACCURACY 1 ±0.25 % Full Scale (Best Fit Straight Line)					t Line)	2	±0.125 % Full Scale (Best	Fit Straiç	ght Line)		
OUTPUT SIGNALS		1	4 mA to 20 mA, 2-wire								
PROCESS CONNECTIONS		_	1/4 " NPT male 3 G1/2B male flush (model 6 (pressure ranges 0 psig to	26 only)	20 UNF SAE #4 male and higher) (pressure	13	1/2 " NPT male G1B male flush (model 62) less than 0 psig to 30 psig	6 only)			
ELECTRICAL CONNECTIONS		8	36 " cable (connected to option 8) 6-pin bendix - IP65 Hirschmann (DIN EN 175301-803 Form A) Hirschmann connector 1/2 " NPT conduit - IP65				M12x1 4-pin IP67 Integral cable 36" - IP67				
OPTIONS		ORF	Threaded Orifice (model 63	25 only)							

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

