PRESSURE







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

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 ENVIRONMENT APPROVED 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.

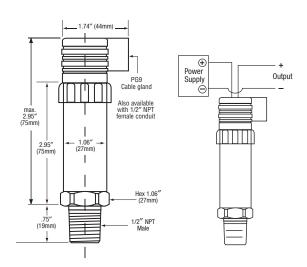
	SPECIFICATIONS				
Output signal	4 mA to 20 mA, 2-wire				
Accuracy	± 0.25 % Full Scale (Best Fit Straight Line), including the effects of linearity, hysteresis and repeatability ± 0.125 % Full Scale accuracy optional				
Hysteresis Repeatability Stability	$\leq \pm 0.1$ % Full Scale $\leq \pm 0.05$ % Full Scale $\leq \pm 0.2$ % 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 p				
Burst 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 2 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, 11 Vdc to 30 Vdc with integral junction box connector Minimum voltage across transmitter connections is 10 Vdc (11 Vdc with integral junction box electrical connection)				
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 IP68 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				
Weight	Approximately 7 oz.				

WIRING DIAGRAMS ELECTRICAL CONNECTIONS

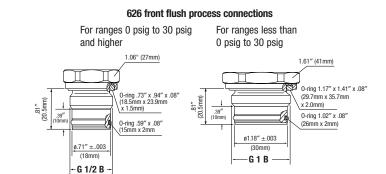
ORDERING INFORMATION										
SERIES 625	5 Stainless steel threaded conne		ection Series 626S 316 stainless steel flush d			phragm	Serie	Hastelloy flush diaphragm		
PRESSURE RANGES	0 in $\mathrm{H}_2\mathrm{O}$ to 50 in $\mathrm{H}_2\mathrm{O}$ 0 in $\mathrm{H}_2\mathrm{O}$ to 100 in $\mathrm{H}_2\mathrm{O}$ -30 in $\mathrm{H}\mathrm{g}$ to 0 psig -30 in $\mathrm{H}\mathrm{g}$ to 30 psig -30 in $\mathrm{H}\mathrm{g}$ to 100 psig -30 in $\mathrm{H}\mathrm{g}$ to 150 psig psig = Gauge NOTE: Series		O psig to 5 psig O psig to 15 psig O psig to 15 psig O psig to 30 psig O psig to 50 psig O psig to 100 psig		•	150 200 300 750 1000 1500 2000 Vailable (0 psig to 3000 psig 0 psig to 5000 psig 0 psig to 5000 psig 0 psig to 8000 psig 0 psig to 10000 psig 0 psig to 15000 psig 0 psig to 25000 psig 0 psig to 60000 psig on special request	3000 5000 8000 10000 15000 25000 60000	0 psia to 15 psia 0 psia to 25 psia 0 psia to 30 psia	40000 15A 25A 30A 50A 100A 250A
ACCURACY	CURACY 1 ±0.25 % Full Scale (Best Fit Straight Line)			t Line)	2 :	±0.125 % Full Scale (Best F	it Straigh	nt Line)		
OUTPUT SIGNALS 1 4 mA to 20 mA, 2-wire										
PROCESS CONNECTIONS 2 1/4 " NPT male 11 G1/2B male flush (model 6 (pressure ranges 0 psig to			626 only) 13 G1B ma		1/2 " NPT male G1B male flush (model 620 (pressure ranges less than	• ,	o 30 psig			
ELECTRICAL CONNECTIONS		1 3 8 14	36 " cable (connected to option 8) 6-pin bendix style connector - IP65 Hirschmann connector PG9 cable gland - IP65 Hirschmann connector 1/2 " NPT conduit - IP65		23 25 29 36	Integral junction box PG11 cable gland - IP67 M12x1 4-pin connector IP67 Integral junction box 1/2 " NPT conduit -IP67 Integral cable (vented) with free leads - IP67				
OPTIONS		ORF	Threaded Orifice (model 6	25 only) (.3 mm)					

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

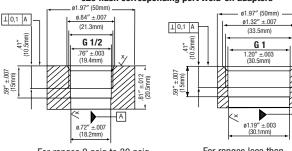
EXAMPLE 625 500 1 1 8 8 ORF Series 625



	Hirschmann	Cable	M12	Bendix	Internal Junction Box
+ Supply	1	Red/Brown	1	Α	1
+ Output	2	Black/Green	3	В	2



626 flush corresponding port weld-on adapters



For ranges 0 psig to 30 psig and higher

For ranges less than 0 psig to 30 psig

