Non-Incendive Pressure Transmitters









APPLICATIONS

- Chemical processing
- Gas pressure measurement
- Oil field & offshore
- Mining
- Well head measurement

NOSHOK 623 and 624 Series transmitters are Factory Mutual and Canadian Standards Association approved for use in hazardous location applications as follows:

Non-Incendive for: Class I, Division 2, Groups A, B, C and D.I.P; Class II, Division 1, Groups E, F and G Maximum ratings 30 Vdc, 20 mA

CE compliant with pressure equipment directive 2014/68/EU. ANSI/ISA-12.27.01, Approved single seal.

623/624 SERIES

- Vacuum and compound ranges through 0 psig to 15,000 psig; absolute ranges from 0 psia to 15 psia through 0 psia to 100 psia
- · Current and voltage outputs available
- 316 Stainless Steel and Elgiloy wetted parts
- Factory Mutual and Canadian Standards Association approved
- · CE compliant to suppress RFI, EMI and ESD
- NACE MR0175/ISO 15156 compliant
- NSI/ISA-12.27.01 approved single seal

	SPECIFICATIONS						
Output signals	4 mA to 20 mA, 2-wire; 1 Vdc to 5 Vdc low power, 3-wire; 0.5 Vdc to 4.5 Vdc low power, 3-wire						
Pressure ranges	Vacuum through 0 psig to 15,000 psig Absolute through 0 psia to 100 psia						
Accuracy	±0.25% full scale (BFSL) (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)						
Stability	≤ ±0.2% full scale for 1 year, non-accumulating						
Response time	≤1 ms (between 10% and 90% full scale)						
Service life	>100,000,000 load cycles						
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Zero effect is ±0.011% full scale/ °F within compensated range Span effect is ±0.011% full scale/ °F within compensated range Media -40 °F to 212 °F (-40 to 100 °C) Ambient -22 °F to 176 °F (-30 °C to 80 °C) Storage -22 °F to 212 °F (-30 °C to 100 °C)						
Power requirement*	10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire) 6 Vdc to 30 Vdc (1 Vdc to 5 Vdc, 3-wire, 0.5 Vdc to 4.5 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire)						
Load limitations	≤ (VPower -10)/0.020 Amp for 4 mA to 20 mA; ≥ 10,000 Ω for 1 Vdc to 5 Vdc, 3-win						
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 10,000 psi 1.5 times full scale for 0 psi to 15,000 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 10,000 psi 3 times full scale for 0 psi to 15,000 psi						
Measuring element	623 Series is 316 Stainless Steel for ranges up through 0 psi to 300 psi, 316 Stainless Steel and Elgiloy for ranges 0 psig to 500 psig and higher; 624 Series is 316 Stainless Steel with NBR o-ring; FKM o-ring optional						
Connection	316 Stainless Steel						
Housing material	316 Stainless Steel						
Environmental rating	IP65 to IP67 dependent upon electrical connection						
Electromagnetic rating	CE compliant to EMC norm EN 61326:2014/A1:1998 RFI, EMI and ESD protection						
Electrical protection	Reverse polarity, over-voltage and short circuit protected						
Shock	1000 g's according to IEC 60068-2-27						
Vibration	20 g's according to IEC 60068-2-6						
Weight	Approximately 12 oz.						

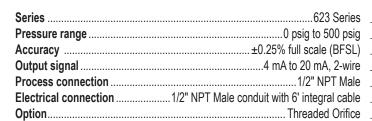
^{*} Unregulated

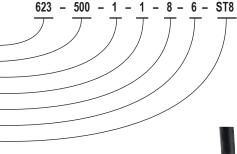


				ORI	DERING INFORMATION				
SERIES	623	***************************************				624	316 Stainless Steel flush dia	aphragm *	
PRESSURE	30vac	-30 inHg to	0 psig	30	0 psig to 30 psig	500	0 psig to 500 psig	6000	0 psig to 6,000 psig
RANGES	30/30	-30 inHg to	30 psig	60	0 psig to 60 psig	1000	0 psig to 1,000 psig	8000	0 psig to 8,000 psig
	30/60	-30 inHg to	60 psig	100	0 psig to 100 psig	1500	0 psig to 1,500 psig	10000	0 psig to 10,000 psig
	30/100	-30 inHg to	100 psig	200	0 psig to 200 psig	2000	0 psig to 2,000 psig	15000	0 psig to 15,000 psig
	15	0 psig to 15	psig	300	0 psig to 300 psig	3000	0 psig to 3,000 psig	15A	0 psia to 15 psia
						5000	0 psig to 5,000 psig	100A	0 psia to 100 psia
	psig = gau	ige pressure	psia = absolute pressure	Oth	er ranges available on request	Note: 6	24 Series is available for pressur	e ranges up	to 0 psig to 8,000 psig
ACCURACY	1	±0.25% full	scale (BFSL)						
OUTPUT SIGNALS	1	4 mA to 20	mA, 2-wire	3	1 Vdc to 5 Vdc, 3-wire, low power	31	0.5 Vdc to 4.5 Vdc, 3-wire, I	ow power	
PROCESS CONNECTIONS	2	1/4" NPT ma	ale	11	G 1/2 B **				
	8	1/2" NPT ma	ale	13	G 1 B (624 Series only, <30 psig)				
ELECTRICAL CONNECTION	6	1/2" NPT ma	ale conduit with 6' integral	cable			-		
OPTION	ST8	Threaded O	rifice (623 Series only)						

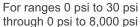
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

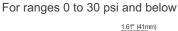
EXAMPLE

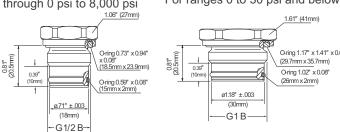


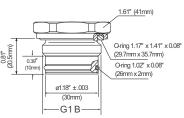


Front flush process connections

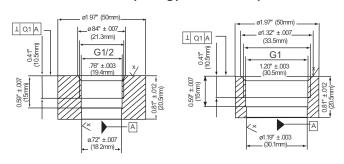








Flush corresponding port weld-on adapters



2-WIRE WIRING V+ Brown V-Green

3-WIRE WIRING					
V+	Brown				
Common	Green				
Output	White				

0.70" (18 mm) 0.75" (19 mm) 0.59" HEX (15 mm) 1/2" NPT 2.75" (70 mm) 1.06" HEX (27 mm) 1.06" (27 mm) 0.75" (19 mm)

^{*} Hastelloy flush diaphragm available upon request.

^{** 624} Series only, G 1/2 B Flush (≥ 30 psig).