Hazardous Location Pressure Transmitters Explosion-Proof





APPLICATIONS

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

NOSHOK 621 and 622 Sereis transmitters are Factory Mutual and Canadian Standards Association approved for use in hazardous location applications as follows:

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.

CE compliant with pressure equipment directive 97/23EC. ANSI/ISA-12.27.01-2003, Approved single seal.

621 622 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-12.27.01-2003 approved single seal

	9	SPECIFICATIONS		
Output signals	4 mA to 20 mA, 2-	wire; 1 Vdc to 5 Vdc, 3-wire; 0.5 Vdc to 4.5 Vdc, 3-wire		
Pressure ranges	Vacuum through 0 psi to 15,000 psi Absolute from 0 psia to 15 psia 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 Zero effect Span effect	32 °F to 176 °F (0 °C to 80 °C) ±0.011% full scale/ °F ±0.011% full scale/ °F		
	Media	T6: -40 °F to 131 °F (-40 °C to 55 °C) T5: -40 °F to 158 °F (-40 °C to 70 °C) T4: -40 °F to 212 °F (-40 °C to 100 °C)		
	Ambient	T6: -40 °F to 140 °F (-40 °C to 60 °C) T5: -40 °F to 167 °F (-40 °C to 75 °C) T4: -40 °F to 221 °F (-40 °C to 105 °C)		
	Storage	-40 °F to 221 °F (-40 °C to 105 °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-wire			
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			
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	621 Series is 316 stainless steel for ranges up through 0 psi to 300 psi, 316 stainless steel with Elglioy ranges 0 psig to 500 psig and higher; 622 Series is 316 stainless steel with NBR o-ring; (FKM o-ring optional)			
Connection	316 stainless steel			
Housing material	316 stainless steel			
Environmental rating	IP67			
Electromagnetic rating	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection			
Electrical protection	Reverse polarity, over-voltage and short circuit protected			
Shock	1,000 g's according to IEC 60068-2-27			
Vibration	20 g's according to IEC 60068-2-6			
Weight	Approximately 12 oz.			



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				ORD	ERING INFORMATION				
SERIES	621	Stainless st threaded co		622	316 Stainless steel flush diaphragm	622H	Hastelloy C flush diaphragm		
PRESSURE	30vac	-30 inHg to	0 psig	5	0 psig to 5 psig	300	0 psig to 300 psig	6000	0 psig to 6,000 psig
RANGES	30/30	-30 inHg to	30 psig	10	0 psig to 10 psig	500	0 psig to 500 psig	8000	0 psig to 8,000 psig
	30/60	-30 inHg to	60 psig	15	0 psig to 15 psig	1000	0 psig to 1,000 psig	10000	0 psig to 10,000 psig
	30/100	-30 inHg to	100 psig	30	0 psig to 30 psig	1500	0 psig to 1,500 psig	15000	0 psig to 15,000 psig
	30/160	-30 inHg to	160 psig	60	0 psig to 60 psig	2000	0 psig to 2,000 psig	15A	0 psia to 15 psia
	30/200	-30 inHg to	200 psig	100	0 psig to 100 psig	3000	0 psig to 3,000 psig	100A	0 psia to 100 psia
	30/300	-30 inHg to	300 psig	200	0 psig to 200 psig	5000	0 psig to 5,000 psig		
	psig = gau	uge pressure	psia = absolute	pressure Oth	er ranges available on request	Note: 6	22 Series is available for pr	ressure ranges up t	o 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-w	rire, low power	
	2	0 Vdc to 5 V	/dc, 3-wire	5	0 Vdc to 10 Vdc, 3-wire				
PROCESS CONNECTIONS	2	1/4" NPT m	ale	11	G 1/2 B*				
	8	1/2 "NPT m	ale	13	G 1 B (622 Series only, <30 psig)				
ELECTRICAL CONNECTIONS	6	1/2" NPT m	ale conduit with	6'integral cable		37	1/2" NPT male conduit	with 6'flying lead	ds with epoxy seal
OPTIONS	ST8	Threaded C (621 Series		20	20' Cable/lead (attached to electrical connection 6 or 37)	30	30' Cable/lead (attached to electrical connection 6 or 37)		

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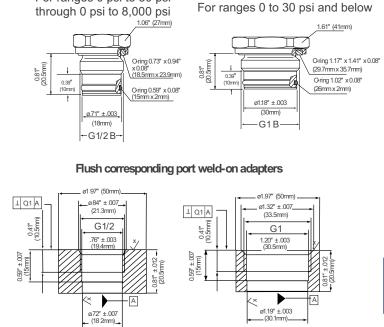
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information. * 622 Series only, G 1/2 B Flush (≥ 30 psig).

EXAMPLE

Series	
Pressure range	0 psig to 500 psig
Accuracy	±0.25% full scale (BFSL)
Output signal	4 mA to 20 mA, 2-wire
Process connection	1/2" NPT Male
Electrical connection 1/2" NP	T Male conduit with 6' integral cable
Option	Threaded Orifice

For ranges 0 psi to 30 psi

Front flush process connections





2-WIRE WIRING+ SupplyRed+ OutputBlackGroundGray

3-WIKE WIKING					
+ Supply	Red				
Common	Black				
+ Output	Brown				
Ground	Gray				