## **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,  $20\ \text{mA}$ .

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

SPECIFICATIONS						
4 mA to 20 mA, 2-wire; 1 Vdc to 5 Vdc, 3-wire; 0.5 Vdc to 4.5 Vdc, 3-wire						
Vacuum through 0 psi to 15,000 psi						
Absolute from 0 psia to 15 psia through 0 psia to 100 psia						
±0.25% full scale (BFSL) (Includes the effects of non-linearity, hysteresis,						
non-repeatability, zero point and full scale errors)						
≤±0.2% full scale for 1 year, non-accumulating						
≤1 ms (between 10% and 90% full scale)						
150 Hz						
>100,000,000 full scale cycles						
Compensated 32 °F to 176 °F (0 °C to 80 °C)						
Zero effect ±0.011% full scale/ °F						
Span effect ±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)						
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)						
≤ (VPower-10)/0.020 Amp for 4 mA to 20 mA						
$\geq$ 10,000 $\Omega$ for 1 Vdc to 5 Vdc, 3-wire						
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						
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						
621 Series is 316 stainless steel for ranges up through 0 psi to 300 psi,						
316 stainless steel with Elgiloy ranges 0 psig to 500 psig and higher;						
622 Series is 316 stainless steel with NBR o-ring; (FKM o-ring optional)						
316 stainless steel						
316 stainless steel						
IP67						
CE compliant to EMC norm EN 61326:1997/A1:1998						
RFI, EMI and ESD protection						
Reverse polarity, over-voltage and short circuit protected						
1,000 g's according to IEC 60068-2-27						
20 g's according to IEC 60068-2-6						
Approximately 12 oz.						

<sup>\*</sup> Unregulated

ORDERING INFORMATION										
SERIES	621	Stainless steel threaded connection			316 Stainless steel flush diaphragm	622H	Hastelloy C flush diaphragm			
PRESSURE	30vac	-30 inHg to 0 psig			0 psig to 15 psig	500	0 psig to 500 psig	6000	0 psig to 6,000 psig	
RANGES	30/30	<b>30/30</b> -30 inHg to 30 psig		30	0 psig to 30 psig	1000	0 psig to 1,000 psig	8000	0 psig to 8,000 psig	
	30/60	-30 inHg to 6	60 psig	60	0 psig to 60 psig	1500	0 psig to 1,500 psig	10000	0 psig to 10,000 psig	
	30/100	-30 inHg to 1	100 psig	100	0 psig to 100 psig	2000	0 psig to 2,000 psig	15000	0 psig to 15,000 psig	
	30/200	-30 inHg to 2	200 psig	200	0 psig to 200 psig	3000	0 psig to 3,000 psig	15A	0 psia to 15 psia	
				300	0 psig to 300 psig	5000	0 psig to 5,000 psig	100A	0 psia to 100 psia	
	psig = gau	ige pressure	psia = absolute pressure	Othe	er ranges available on request	Note: 6	22 Series is available for press	sure ranges up t	o 0 psig to 8,000 psig	
ACCURACY	1	±0.25% full s	scale (BFSL)							
OUTPUT SIGNALS	1	4 mA to 20 n	nA, 2-wire	3	1 Vdc to 5 Vdc, 3-wire, low power	31	0.5 Vdc to 4.5 Vdc 3-wire,	low power		
	2	0 Vdc to 5 Vd	dc, 3-wire	5	0 Vdc to 10 Vdc, 3-wire					
PROCESS CONNECTIONS	2	1/4" NPT ma	le	11	G 1/2 B*					
	8	1/2 "NPT ma	ıle	13	G 1 B (622 Series only, <30 psig)					
ELECTRICAL CONNECTIONS	6	1/2" NPT male conduit with 6'integral cable				37 1/2" NPT male conduit with 6'flying leads with epoxy seal				
OPTIONS	ST8	Threaded Or (621 Series		20	20' Cable/lead (attached to electrical connection 6 or 37)	30	30' Cable/lead (attached to electrical connection 6 or 37)			

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

<sup>\* 622</sup> Series only, G 1/2 B Flush (≥ 30 psig).

