

Intrinsically Safe



625/626 SERIES

- Low pressure ranges for vapor recovery applications, vacuum and compound ranges through 0 psig to 15,000 psig; absolute ranges from 0 psia to 15 psia through 0 psia to 300 psia
- Current output
- 316 and 14-4PH Stainless Steel wetted parts
- Factory Mutual and Canadian Standards Association approved
- NSI/ISA-12.27.01 approved single seal

APPLICATIONS

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

NOSHOK 625 and 626 Series transmitters are Factory Mutual and Canadian Standards Association 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 2, Groups F and G Non-incendive for Class I, Division 2, Groups A, B, C and D. ANSI/ISA-12.27.01, Approved single seal.

SPECIFICATIONS

Output signal	4 mA to 20 mA, 2-wire
Pressure ranges	Vacuum through 0 psig to 15,000 psig Absolute from 0 psia to 15 psia through 0 psia to 300 psia
Accuracy	±0.25% full scale (BFSL); optional ±0.125% 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
Adjustment	± 10% full scale for zero and span
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 Span effect is ±0.011% full scale/ °F Media -4 °F to 185 °F (-20 °C to 85 °C) Ambient -4 °F to 176 °F (-20 °C to 80 °C) Storage -22 °F to 221 °F (-30 °C to 105 °C)
Power requirement*	10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire)
Load limitations	≤ (VPower-10)/0.020 Amp
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 10,000 psi 1.5 times full scale for 0 psi to 15,000 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 10,000 psi 3 times full scale for 0 psi to 15,000 psi
Measuring element	625 Series is 316 Stainless Steel for ranges up through 0 psi to 300 psi, 316 Stainless Steel with 17-4PH Stainless Steel for ≥300 psi; 626 Series is 316 Stainless Steel with NBR o-ring
Connection	316 Stainless Steel
Housing material	316 Stainless Steel
Environmental rating	IP65 to IP67 depending upon electrical connection
Electromagnetic rating	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 7 oz.

* Unregulated

ORDERING INFORMATION				
SERIES	625	Stainless Steel threaded connection	626	316 Stainless Steel flush diaphragm
626H	Hastelloy flush diaphragm			
PRESSURE RANGES	4/12 oz/in ²	-4 oz/in ² to 12 oz/in ²	30/100	-30 inHg to 100 psig
	12 oz/in ²	0 oz/in ² to 12 oz/in ²	30/150	-30 inHg to 150 psig
	16 oz/in ²	0 oz/in ² to 16 oz/in ²	30/200	-30 inHg to 200 psig
	50 inH ₂ O	0 inH ₂ O to 50 inH ₂ O	3	0 psig to 3 psig
	100 inH ₂ O	0 inH ₂ O to 100 inH ₂ O	5	0 psig to 5 psig
	30vac	-30 inHg to 0 psig	15	0 psig to 15 psig
	30/15	-30 inHg to 15 psig	30	0 psig to 30 psig
	30/30	-30 inHg to 30 psig	60	0 psig to 60 psig
	30/60	-30 inHg to 60 psig	100	0 psig to 100 psig
psig = gauge pressure psia = absolute pressure Other ranges available on request Note: 626 Series is available for pressure ranges up to 0 psig to 8,000 psig				
ACCURACY	1	±0.25% full scale (BFSL)	2	±0.125% full scale (BFSL)
OUTPUT SIGNAL	1	4 mA to 20 mA, 2-wire		
PROCESS CONNECTIONS	2	1/4" NPT male	13	G 1 B (626 Series only, <30 psig)
	8	1/2" NPT male	45	7/16-20 SAE J514 FIG 34B (Non-Adjustable)
	11	G 1/2 B *		
ELECTRICAL CONNECTIONS	1	DIN EN 175301-803 Form A w/ 36" Cable	14	DIN EN 175301-803 Form A with 1/2" NPT female conduit – IP65
	3	6-pin Bayonet - IP65	25	M12x1 (4-pin) IP67
	8	DIN EN 175301-803 Form A	36	Integral cable 36" - IP67
OPTION	ST8	Threaded Orifice (625 Series only)		

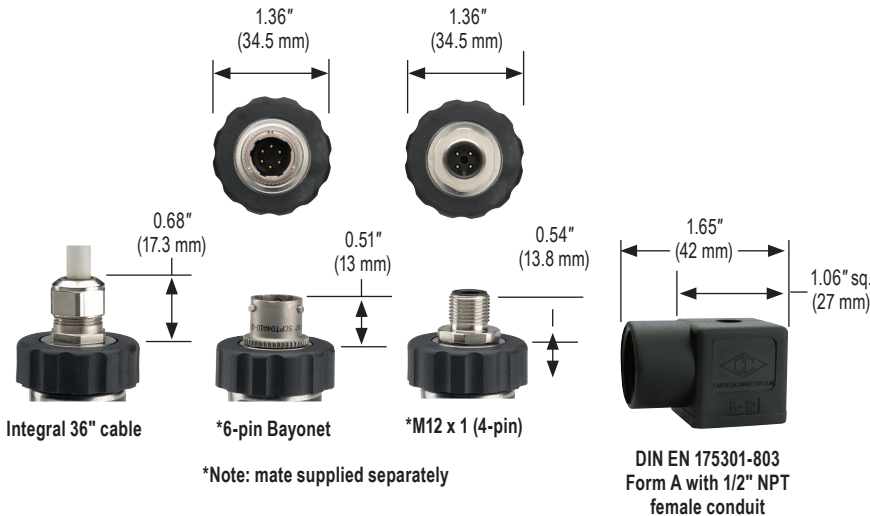
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

* 626 Series only, G 1/2 B Flush (≥ 30 psig).

EXAMPLE

Series 625 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 DIN EN 175301-803 Form A
 Option Threaded Orifice

625 - 500 - 1 - 1 - 8 - 8 - ST8



2-WIRE WIRING

	DIN EN 175301-803 Form A	Cable	M12	Bayonet
V+	1	Red/Brown	1	A
V-	2	Black/Green	3	B

NOTE

See 621/622 Series for G1/2B and G1B Front Flush Process Connection Dimensions pg. 85

