Pressure Non-Incendive Pressure Transmitters





FEATURES

- Accuracy to ±0.25% full scale (BFSL)
- 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
- Low power voltage outputs
- available NACE MR0175/ISO 15156 compliant
- ANSI/ISA-12.27.01-2003 Approved single seal
- Zener barriers are not required to meet non-incendive approval

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



- Designed for applications that require pressure measurement in hazardous locations
- Accuracy to ±0.25% full scale (BFSL)
- Wide variety of pressure ranges available
- Advanced diffused semi-conductor and sputtered thin film sensor for maximum stability
- Available with a standard threaded connection as well as a flush diaphragm configuration
- Welded 316 stainless steel with no internal o-rings, gaskets or seals – optional Hastelloy C4 on flush diaphragm model

- 1/2" NPT conduit connection
- Zener barriers are not required to meet non-incendive approval
- · CE compliant to suppress RFI, EMI, and ESD
- NACE MR0175/ISO 15156 compliant
- ANSI/ISA-12.27.01-2003 approved single seal
- Factory Mutual & Canadian Standards Association approved

SPECIFICATIONS

Output signals 4 mA to 20 mA, 2-wire; 1 Vdc to 5 Vdc low power; 3-wire; Accuracy ±0.25% full scale (BFSL) (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors) Hysteresis ≤±0.1% full scale Repeatability ≤±0.05% full scale for 1 year, non-accumulating Pressure ranges Standard ranges from vacuum to 15,000 psi Proof pressure 3 times full scale for ranges 0 psi to 300 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 ranges 0 psi to 300 psi through 0 psi to 10,000 psi 3 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi 3 times full scale for onges 0 psi to 300 psi through 0 psi to 10,000 psi 3 times full scale for onges 0 psi to 300 psi through 0 psi to 10,000 psi 3 times full scale for 0 psi to 15,000 psi range Power supply* 10 Vdc to 30 Vdc (1 Wac to 20 mA, 2-wire) 6 Vdc to 30 Vdc (1 Vdc to 5 Vdc, 3-wire) 6 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire) 6 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire) 7 the Vdc to 5 Vdc and 0.5 Vdc to 4.5 Vdc and 0.0 for 1 Vdc to 5 Vdc and 0.5 Vdc to 4.5 Vdc outputs with power supply ≤ 12 Vdc Response time ≤1 ms (between 10% and 90% full scale) Durability >100,000,000 full scale 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 Span effect is ±0.011% full		SPECIFICATIONS					
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Stability ≤ ±0.2% full scale for 1 year, non-accumulating Pressure ranges Standard ranges from vacuum to 15,000 psi Proof pressure 3 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi 1.5 times full scale for ranges 0 psi to 300 psi through 0 psi to 200 psi 1.5 times full scale for ranges 0 psi to 15 psi through 0 psi to 200 psi 4 times full scale for 0 psi to 15,000 psi range Burst pressure 3.8 times full scale for ranges 0 psi to 300 psi through 0 psi to 200 psi 3 times full scale for 0 psi to 15,000 psi range Power supply* 10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire) 6 Vdc to 30 Vdc (1 Vdc to 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) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire) Durability >100,000,000 full scale 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 Ambient +22 °F to 212 °F (-30 °C to 100 °C) Media +25 °F to 212 °F (-30 °C to 100 °C) Storage +40 °F to 212 °F (-40 °C to 100 °C) Media +25 °F to 212 °F (-40 °C to 100 °C) Storage +40 °F to 212 °F (-40 °C to 100 °C) Storage +40 °F to 212 °F (-40 °C to 100 °C) Media +25 °F to 212 °F (-40 °C to 100 °C) Media +25 °F to 212 °F (-40 °C to 100 °C) Storage +40 °F to 212 °F (-40 °C to 100 °C) Media +25 °F to 212 °F (-40 °C to 100 °C) Media +25 °F to 212 °F (-40 °C to 100 °C) Media +25 °F to 212 °F (-40 °C to 100 °C) Media +25 °F to 212 °F (-40 °C to 100 °C) Media +25 °F to 212 °F (-40 °C to 100 °C) Medi	Hysteresis	≤ ±0.1% full scale					
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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 300 psi through 0 psi to 10,000 psi 4 times full scale for 0 psi to 15,000 psi range Power supply* 10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire) 6 Vdc to 30 Vdc (0 Vdc to 5 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 4.5 Vdc, 3-wire) 14 Vdc to 30 Vdc (1 Vdc to 5 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire) 10 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire) 10 Vdc to 5 Vdc to 4.5 Vdc, 3-wire) 10 Vdc to 5 Vdc to 4.5 Vdc outputs with power supply ≤ 12 Vdc Response time Power consumption 20 mA maximum for 4 mA to 20 mA output and 2 mA for 1 Vdc to 5 Vdc and 0.5 Vdc to 4.5 Vdc outputs with power supply ≤ 12 Vdc Response time 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 Ambient -22 °F to 212 °F (-32 °C to 100 °C) Media -25 °F to 212 °F (-32 °C to 100 °C) Wetted materials Model 623 is 316 stainless steel for ranges 0 psig to 500 psig and higher; Model 623 is 316 stainless steel on ranges 0 psig to 500 psig and higher; Model 624 is 316 stainless steel Environmental rating NEMA 4x, IP65 to IP67 dependent upon electrical connection Electrical protection Reverse polarity, over-voltage and short circuit protected Shock 1000 g's according to I	Stability	≤ ±0.2% full scale for 1 year, non-accumulating					
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Power consumption 20 mA maximum for 4 mA to 20 mA output and 2 mA for 1 Vdc to 5 Vdc and 0.5 Vdc to 4.5 Vdc outputs with power supply ≤ 12 Vdc Response time ≤1 ms (between 10% and 90% full scale) Durability >100,000,000 full scale 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 Ambient -22 °F to 212 °F (-30 °C to 100 °C) Media -25 °F to 212 °F (-30 °C to 100 °C) Wetted materials Model 623 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; Model 624 is 316 stainless steel for ranges 0 psig to 500 psig and higher; Model 624 is 316 stainless steel with NBR o-ring; FKM o-ring optional Housing material 316 stainless steel Environmental rating NEMA 4x, IP65 to IP67 dependent upon electrical connection Electroragnetic rating RFI, EMI and ESD protection Electrical protection Reverse polarity, over-voltage and short circuit protected Shock 1000 g's according to IEC 770 orm echanical shock Vibration 20 g's according to IEC 770 under resonance conditions Hazardous approvals Factory Mutual and Canadian Standards Association approved 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	Power supply*	6 Vdc to 30 Vdc (1 Vdc to 5 Vdc, 3-wire) 6 Vdc to 30 Vdc (0.5 Vdc to 4.5 Vdc, 3-wire)					
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Electrical protection Reverse polarity, over-voltage and short circuit protected Shock 1000 g's according to IEC 770 for mechanical shock Vibration 20 g's according to IEC 770 under resonance conditions Hazardous approvals Factory Mutual and Canadian Standards Association approved 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	Environmental rating	NEMA 4x, IP65 to IP67 dependent upon electrical connection					
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Vibration 20 g's according to IEC 770 under resonance conditions Hazardous approvals Factory Mutual and Canadian Standards Association approved 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	Electrical protection	Reverse polarity, over-voltage and short circuit protected					
Hazardous approvals Factory Mutual and Canadian Standards Association approved 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	Shock	1000 g's according to IEC 770 for mechanical shock					
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	Vibration	20 g's according to IEC 770 under resonance conditions					
	Hazardous approvals	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					
Weight Approximately 12 oz.	Weight	Approximately 12 oz.					

* Unregulated power supplies

623/624 SERIES ORDERING INFORMATION DIMENSIONS

WIRING DIAGRAMS ELECTRICAL CONNECTIONS

			ORD	ERING INFORMATION					
SERIES	623					316 Stainless steel flush diaphragm			
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	uge pressure psia = absolute pressur	e Oth	er ranges available on special request					
	NOTE: Se	eries 624 is available for pressure ranges	up to 0 psi	ig to 8000 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	.5 Vdc to 4.5 Vdc, 3-wire, low power			
PROCESS CONNECTIONS	2	1/4" NPT Male			11	 G1/2B Male flush (model 624 only) (pressure ranges 0 psi to 30 psi and higher) G1B Male flush (model 624 only) (pressure ranges less than 0 psi to 30 psi) 			
	8	1/2" NPT Male			13				
ELECTRICAL CONNECTION	6	1/2" NPT Male conduit with 6' integ	al cable						
OPTION	ORF	Threaded orifice (Model 623 only)							

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

*Hastelloy flush diaphragm available upon request.

