

SERIES 619/620

ATEX-APPROVED HAZARDOUS LOCATION PRESSURE TRANSMITTERS

NOSHOK Series 619 and 620 heavy-duty pressure transmitters feature a pressure-tight encapsulated design and are ATEX II 2 G Ex d II C approved. Available in a wide variety of pressure ranges, they are ideal for use in volatile environments such as oil & gas, petrochemical and borehole applications.

These transmitters feature corrosion-resistant stainless steel construction, and a welded pressure connection and measuring cell for exceptional shock and vibration resistance. Their standard output signal is 4-20 mA, 2-wire, however other options are available with voltage outputs in a 3-wire system. The 619 Series transmitter features a 1/2" NPT standard connection, while the front flush 620 Series version eliminates extra space in which the measuring medium can crystallize or form residue.

NOSHOK 619 and 620 Series transmitters also provide significant levels of RFI, EMI and ESD protection.



FEATURES

- ATEX approved II 2G Ex d II C
- For dynamic and static measurements
- High accuracy and long term stability
- Excellent overload protection
- Wide variety of pressure ranges
- Corrosion-resistant stainless steel design
- Excellent repeatability

APPLICATIONS

- Gas pressure measurement
- Oil drilling platforms/pipelines
- Refineries/Petrochemical industry
- Borehole monitoring

SPECIFICATIONS

Output signals	4 mA to 20 mA, 2-wire; 1 Vdc to 5 Vdc, 3-wire; 0 Vdc to 10 Vdc, 3-wire; 0.5 Vdc to 4.5 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
Stability	≤±0.2% Full Scale for 1 year, non-accumulating
Pressure ranges	Standard gauge ranges from vacuum to 15000 psig Standard absolute ranges from 15 psia to 200 psia
Proof pressure	3.5 times Full Scale for ranges 0 psi to 15 psi through 0 psi to 200 psi 2 times Full Scale for ranges 0 psi to 300 psi through 0 psi to 10000 psi 1.5 times Full Scale for 0 psi to 15000 psi
Burst pressure	5 times Full Scale for ranges 0 psi to 15 psi through 0 psi to 200 psi 3.5 times Full Scale for ranges 0 psi to 300 psi through 0 psi to 10000 psi 3 times Full Scale for 0 psi to 15000 psi
Power supply	10 Vdc to 30 Vdc unregulated for 4 mA to 20 mA output 6 Vdc to 30 Vdc unregulated for 1 Vdc to 5 Vdc output 14 Vdc to 30 Vdc unregulated for 0 Vdc to 10 Vdc output 5 Vdc to 30 Vdc unregulated for 0.5 Vdc to 4.5 Vdc output
Load limitations	≤(VPower-10)/0.020 Amp for 4 mA to 20 mA >10,000 Ω for 1 Vdc to 5 Vdc, 3-wire and 0 Vdc to 10 Vdc > 5,000 Ω for 0.5 Vdc to 4.5 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 Span effect is ≤±0.011% Full Scale /°F Ambient -22°F to 221°F (-30°C to 105°C); optional -40°F to 221°F (-40°C to 105°C) Media -22°F to 212°F (-30°C to 100°C); optional -40°F to 221°F (-40°C to 105°C) Storage -22°F to 212°F (-30°C to 100°C); optional -40°F to 221°F (-40°C to 105°C)
Wetted materials	Series 619 is 316 stainless steel for ranges up through 0 psi to 300 psi, 316 stainless steel with Elgiloy for ranges 0 psi to 500 psi and higher; Series 620 is 316 stainless steel with NBR o-ring; optional FPM or EPDM o-ring
Housing material	316 stainless steel
Environmental rating	NEMA 4x (IP 67 according to EN 60 529/IEC529)
Electromagnetic rating	89/336/EEC emissions (class B) and immunity according to EN 61326
Electrical rating	Reverse polarity, over voltage and short circuit protection
Shock	1000 g's according to IEC 60068-2-27
Vibration	20 g's according to IEC 60068-2-63
CE	Pressure equipment directive 97/23/EC Directive ATEX 94/9/EC
HF immunity	10 V/m
Burst	4 kV
Hazardous approval	Explosion proof protection type ATEX; EX d II c T4-T6
Weight	Approximately 8 oz.

ORDERING INFORMATION

SERIES 619	Stainless steel threaded connection	SERIES 620	316 stainless steel flush diaphragm
PRESSURE RANGES	-30 inHg to 0 psig -30 inHg to 30 psig -30 inHg to 60 psig -30 inHg to 100 psig 0 psig to 15 psig psig = Gauge Pressure NOTE: Series 620 is available for pressure ranges up to 0 psig to 8000 psig	30V 0 psig to 30 psig 30/30 0 psig to 60 psig 30/60 0 psig to 100 psig 30/100 0 psig to 200 psig 15 0 psig to 300 psig psia = Absolute Pressure Other ranges available on special request	30 0 psig to 500 psig 60 0 psig to 1000 psig 100 0 psig to 1500 psig 200 0 psig to 2000 psig 300 0 psig to 3000 psig 500 0 psig to 5000 psig 1000 0 psig to 8000 psig 1500 0 psig to 10000 psig 2000 0 psig to 15000 psig 3000 0 psia to 15 psia 5000 0 psia to 100 psia 8000 10000 15000 15A 100A
ACCURACY	1 ±0.25 % Full Scale (BFSL)	2 ±0.125 % 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 620 only) (pressure ranges 0 psi to 30 psi and higher)	8 1/2 " NPT Male 13 G1B Male flush (model 620 only) (pressure ranges less than 0 psi to 30 psi)	
ELECTRICAL CONNECTIONS	6 1/2 " NPT Male conduit with 6 foot integral cable		
OPTIONS	ORF Threaded Orifice (model 619 only)	15 15 ' cable/lead (attached to option 6)	

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

EXAMPLE

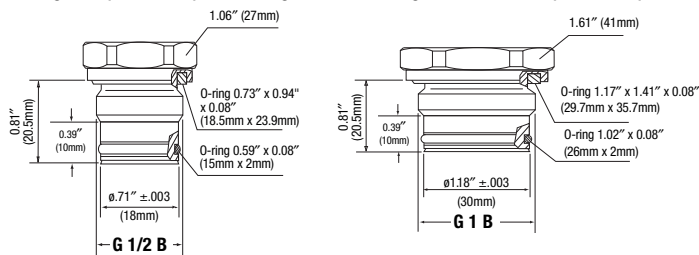
Series 619
 Pressure Range 0 psig to 500 psig
 Accuracy ±0.25 % Full Scale
 Output Signal 4 mA to 20 mA
 Process Connection 1/2 " NPT Male
 Electrical Connection Integral cable
 Option Threaded orifice

619 - 500 - 1 - 1 - 8 - 6 - ORF

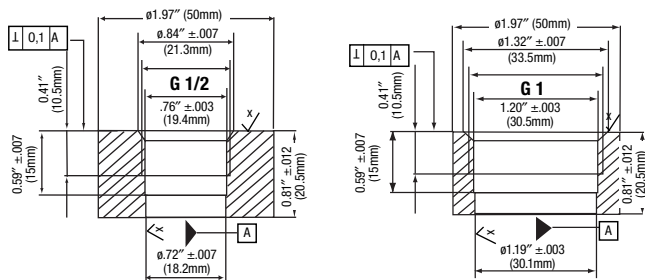
Outline Dimensions

Front flush process connections

For ranges 0 psi to 30 psi and higher For ranges less than 0 psi to 30 psi



Flush corresponding port weld-on adapters



2-WIRE WIRING

+ Supply	Red
+ Output	Black

3-WIRE WIRING

+ Supply	Red
Common	Black
+ Output	Brown

Explosion-Proof Pressure Transmitters



SERIES 621/622

HAZARDOUS LOCATION PRESSURE TRANSMITTERS

The NOSHOK Series 621 and 622 pressure transmitters combine the reliability and long life of diffused semiconductor and sputtered thin film strain gage sensors with safe electronics for outstanding performance and value. These transmitters were designed for applications that require pressure measurement in hazardous environments. All wetted parts are made of stainless steel and Elgiloy welded with no internal O-rings, gaskets or seals.

These transmitters are available with a wide variety of pressure ranges to suit most applications. All units undergo extensive testing during the manufacturing process to ensure that the highest performance is achieved in the demanding environments found in today's applications. The transmitters are available with a standard threaded connection as well as a flush diaphragm configuration and are Factory Mutual approved. All models incorporate significant levels of RFI, EMI and ESD protection.

FEATURES

- Accuracy to $\pm 0.25\%$ Full Scale (BFSL)
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- Welded 316 stainless steel, and Elgiloy
- 1/2" NPT conduit connection
- NACE MR0175/ISO 15156 compliant
- ANSI/ISA-12.27.01-2003 Approved single seal
- Low power voltage outputs available
- 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

APPLICATIONS

SPECIFICATIONS

Output signals	4 mA to 20 mA, 2-wire; 1 Vdc to 5 Vdc, 3-wire; .5 Vdc to 4.5 Vdc, 3-wire
Accuracy	$\pm 0.25\%$ Full Scale (BFSL); (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Hysteresis	$\leq \pm 0.1\%$ Full Scale
Repeatability	$\leq \pm 0.05\%$ Full Scale
Stability	$\leq \pm 0.2\%$ Full Scale for 1 year, non-accumulating
Pressure ranges	Standard ranges from vacuum to 15000 psi
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 10000 psi 1.5 times Full Scale for 0 psi to 15000 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 10000 psi 3 times Full Scale for 0 psi to 15000 psi range
Power supply	10 Vdc to 30 Vdc unregulated, for 4 mA to 20 mA output, 6 Vdc to 30 Vdc for 1 Vdc to 5 Vdc low power and .5 Vdc to 4.5 Vdc low power (≤ 2 mA for Power Supply ≤ 12 Vdc) output, unregulated
Load limitations	$\leq (V_{Power}-10)/0.020$ Amp for 4 mA to 20 mA $\geq 10,000 \Omega$ for 1 Vdc to 5 Vdc, 3-wire
Zero/Span offset	$\leq 0.5\%$ Full Scale
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 $\pm 0.011\%$ Full Scale/°F Span effect is $\pm 0.011\%$ Full Scale/°F Ambient -22 °F to 212 °F (-30 °C to 100 °C); -46 °F to 220 °F optional Media -25 °F to 212 °F (-32 °C to 100 °C); -46 °F to 220 °F optional Storage -40 °F to 212 °F (-40 °C to 100 °C)
Wetted materials	Model 621 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; Model 622 is 316 stainless steel with BUNA N O-ring; (Viton® O-ring optional)
Housing material	316 stainless steel
Environmental rating	NEMA 4x (IP67)
Electromagnetic rating	RFI, EMI and ESD protection
Electrical rating	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 CSA approved 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 ANSI/ISA-12.27.01-2003, Approved single seal
Weight	Approximately 12 oz.

ORDERING INFORMATION

SERIES 621	Stainless steel threaded connection	622S	316 stainless steel flush diaphragm	622H	Hastelloy C flush diaphragm			
PRESSURE RANGES	-30 inHg to 0 psig	30V	0 psig to 15 psig	15	0 psig to 300 psig	300	0 psig to 5000 psig	5000
	-30 inHg to 30 psig	30/30	0 psig to 30 psig	30	0 psig to 500 psig	500	0 psig to 6000 psig	6000
	-30 inHg to 60 psig	30/60	0 psig to 60 psig	60	0 psig to 1000 psig	1000	0 psig to 8000 psig	8000
	-30 inHg to 100 psig	30/100	0 psig to 100 psig	100	0 psig to 1500 psig	1500	0 psig to 10000 psig	10000
	-30 inHg to 200 psig	30/200	0 psig to 200 psig	300	0 psig to 2000 psig	2000	0 psig to 15000 psig	15000
					0 psig to 3000 psig	3000	0 psia to 15 psia	15A
	psig = Gauge Pressure	psia = Absolute Pressure	Other ranges available on special request				0 psia to 100 psia	100A
	NOTE: Series 622 is available for pressure ranges up to 0 psig to 8000 psig							
ACCURACY	1 ±0.25 % Full Scale (BFSL)							
OUTPUT SIGNALS	1 4 mA to 20 mA, 2-wire			2 0 Vdc to 5 Vdc, 3-wire		3 1 Vdc to 5 Vdc, 3-wire, Low Power		
	5 0 Vdc to 10 Vdc, 3-wire			31 .5 Vdc to 4.5 Vdc 3-wire, Low Power				
PROCESS CONNECTIONS	2 1/4 " NPT Male			8 1/2 " NPT Male		11 G1/2B Male flush (model 622 only)		
	13 G1B Male flush (model 622 only) (pressure ranges 0 psi to 30 psi and higher)					(pressure ranges less than 0 psi to 30 psi)		
ELECTRICAL CONNECTIONS	6 1/2 " NPT Male conduit with 6 foot integral cable			37 1/2 " NPT Male conduit with 6 foot flying leads with epoxy seal				
OPTIONS	ORF Threaded Orifice (model 621 only)			20 20 ' cable/lead (attached to options 6 or 37)		30 30 ' cable/lead (attached to options 6 or 37)		

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

EXAMPLE

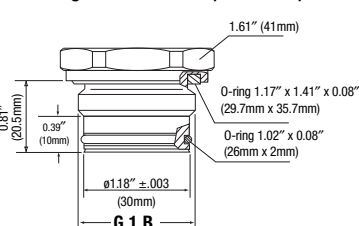
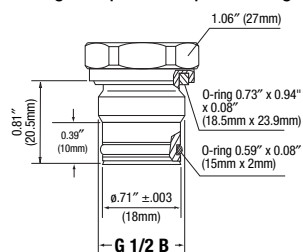
Series621
Pressure Range0 psig to 500 psig
Accuracy±0.25 % Full Scale
Output Signal4 mA to 20 mA
Process Connection1/2 " NPT Male
Electrical ConnectionIntegral cable
OptionThreaded orifice

621 - 500 - 1 - 1 - 8 - 6 - ORF

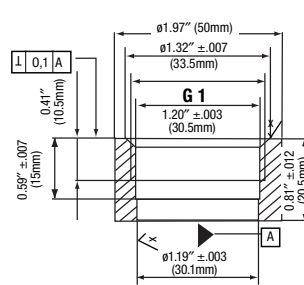
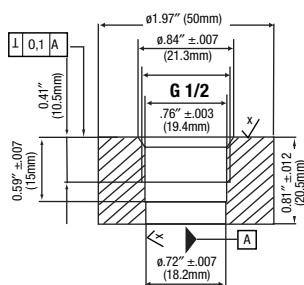
Outline Dimensions

Front flush process connections

For ranges 0 psi to 30 psi and higher For ranges less than 0 psi to 30 psi



Flush corresponding port weld-on adapters



2-WIRE WIRING

+ Supply	Red
+ Output	Black

3-WIRE WIRING

+ Supply	Red
Common	Black
+ Output	Brown

Non-Incendive Pressure Transmitters



SERIES 623/624

HAZARDOUS LOCATION PRESSURE TRANSMITTERS

The NOSHOK Series 623 and 624 pressure transmitters combine the reliability and long life of diffused semiconductor and sputtered thin film strain gage sensors with safe electronics for outstanding performance and value. These transmitters were designed for applications that require pressure measurement in hazardous environments. The pressure chamber is welded with no internal O-rings, gaskets or seals.

These transmitters are available with a wide variety of pressure ranges to suit most applications. All units undergo extensive testing during the manufacturing process to ensure that the highest performance is achieved in the demanding environments found in today's applications. The transmitters are available with a standard threaded connection as well as a flush diaphragm configuration and are Factory Mutual and Canadian Standards Association approved. All models incorporate significant levels of RFI, EMI and ESD protection.

FEATURES

- Accuracy to $\pm 0.25\%$ 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

SPECIFICATIONS

Output signals	4 mA to 20 mA, 2-wire; 1 Vdc to 5 Vdc low power, 3-wire; .5 Vdc to 4.5 Vdc low power, 3-wire
Accuracy	$\pm 0.25\%$ Full Scale (BFSL); (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Hysteresis	$\leq \pm 0.1\%$ Full Scale
Repeatability	$\leq \pm 0.05\%$ Full Scale
Stability	$\leq \pm 0.2\%$ Full Scale for 1 year, non-accumulating
Pressure ranges	Standard ranges from vacuum to 15000 psi
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 10000 psi 1.5 times Full Scale for 0 psi to 15000 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 10000 psi 3 times Full Scale for 0 psi to 15000 psi range
Power supply	10 Vdc to 30 Vdc unregulated for 4 mA to 20 mA; 6 Vdc to 30 Vdc for 1 Vdc to 5 Vdc, and .5 Vdc to 4.5 Vdc output, unregulated
Load limitations	$\leq (V_{Power} - 10)/0.020$ Amp for 4 mA to 20 mA $\geq 10,000 \Omega$ for 1 Vdc to 5 Vdc, 3-wire
Power consumption	20 mA maximum for 4 mA to 20 mA output and 2 mA for 1 Vdc to 5 Vdc and .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 $\pm 0.011\%$ Full Scale/°F within compensated range Span effect is $\pm 0.011\%$ 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) Storage -40 °F to 212 °F (-40 °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 with BUNA N O-ring; Viton® O-ring optional
Housing material	316 stainless steel
Environmental rating	NEMA 4x, IP65 to IP67 dependent upon electrical connection
Electromagnetic Rating	RFI, EMI and ESD protection
Electrical rating	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 with entity approval for: Class I, Division 2, Groups A, B, C and D; Class II and III, Division 1, Groups E, F and G Maximum ratings 30 Vdc, 20 mA ANSI/ISA-12.27.01-2003, Approved single seal
Weight	Approximately 12 oz.

ORDERING INFORMATION

Series	623 Stainless steel threaded connection	624* 316 stainless steel flush diaphragm
PRESSURE	-30 inHg to 0 psig 30vac	0 psig to 15 psig 15
	-30 inHg to 30 psig 30/30	0 psig to 300 psig 300
	-30 inHg to 60 psig 30/60	0 psig to 500 psig 500
	-30 inHg to 100 psig 30/100	0 psig to 1000 psig 1000
		0 psig to 1500 psig 1500
		0 psig to 2000 psig 2000
		0 psig to 3000 psig 3000
		0 psig to 5000 psig 5000
		0 psig to 6000 psig 6000
		0 psig to 8000 psig 8000
		0 psig to 10000 psig 10000
		0 psig to 15000 psig 15000
		0 psia to 15 psia 15A
		0 psia to 100 psia 100A
psig = Gauge Pressure psia = Absolute Pressure Other ranges available on special request		
NOTE: Series 624 is available for pressure ranges up to 0 psig 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)	8 1/2" NPT Male 13 G1B Male flush (model 624 only) (pressure ranges less than 0 psi to 30 psi)
ELECTRICAL CONNECTIONS	6 1/2" NPT Male conduit with 5 foot integral cable	
OPTIONS	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.

EXAMPLE

Series623
Pressure Range0 psig to 500 psig
Accuracy±0.25 % Full Scale
Output Signal4 mA to 20 mA
Process Connection1/2" NPT Male
Electrical ConnectionIntegral cable
OptionThreaded orifice

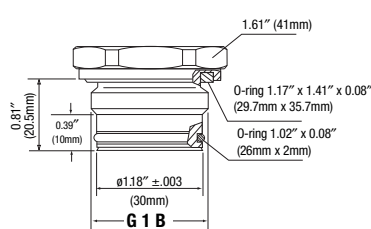
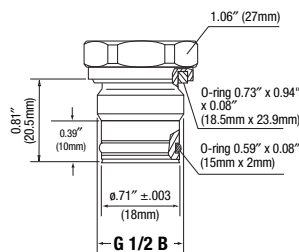
623 - 500 - 1 - 1 - 8 - 6 - ORF

Outline Dimensions

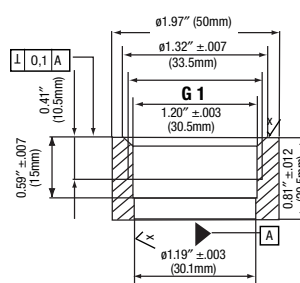
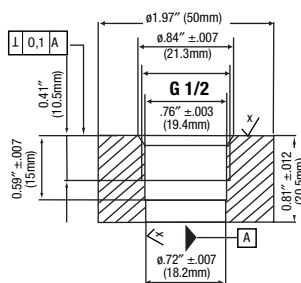
Front flush process connections

For ranges 0 psi to 30 psi and higher

For ranges less than 0 psi to 30 psi



Flush corresponding port weld-on adapters



2-WIRE WIRING

+ Supply	Brown
+ Output	Green

3-WIRE WIRING

+ Supply	Brown
Common	Green
+ Output	White

Intrinsically Safe Pressure Transmitters



SERIES 625/626

HAZARDOUS LOCATION PRESSURE TRANSMITTERS

The NOSHOK Series 625 and 626 pressure transmitters combine the reliability and long life of diffused semiconductor and sputtered thin film strain gage sensors with safe electronics for outstanding performance and value. These transmitters were designed for applications that require pressure measurement in hazardous environments. All wetted parts are made of stainless steel (Hastelloy® C4 optional on front flush model), welded with no internal O-rings, gaskets or seals.

These transmitters are available with a wide variety of pressure connections, ranges and electrical connections to suit most applications. All units undergo extensive testing during the manufacturing process to ensure that the highest performance is achieved in the demanding environments found in today's applications. The transmitters are available with standard threaded connections as well as flush diaphragm configurations and are Factory Mutual and Canadian Standards Association approved. All models incorporate significant levels of RFI, EMI and ESD protection.

FEATURES

- Accuracy to $\pm 0.125\%$ 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
- Entity approved for use with all approved zener barriers where required
- ANSI/ISA-12.27.01-2003 Approved single seal
- 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

APPLICATIONS

SPECIFICATIONS

Output signal	4 mA to 20 mA, 2-wire
Accuracy	$\pm 0.25\%$ Full Scale (BFSL); Optional $\pm 0.125\%$ Full Scale (BFSL); (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Hysteresis	$\leq \pm 0.1\%$ Full Scale
Repeatability	$\leq \pm 0.05\%$ Full Scale
Stability	$\leq \pm 0.2\%$ Full Scale for 1 year, non-accumulating
Pressure ranges	Standard ranges from vacuum to 60000 psi
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 10000 psi 1.5 times Full Scale for 0 psi to 15000 psi range 1.2 times Full Scale for ranges 0 psi to 25000 psi and 0 psi to 60000 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 10000 psi 3 times Full Scale for 0 psi to 15000 psi range 2 times Full Scale for ranges 0 psi to 25000 psi and 0 psi to 60000 psi
Power supply	10 Vdc to 30 Vdc unregulated Minimum voltage across transmitter connections is 10 Vdc
Load limitations	$\leq (V_{Power}-10)/0.020$ Amp
Response time	≤ 1 ms (between 10 % and 90 % Full Scale)
Durability	$> 100,000,000$ Full Scale cycles
Adjustment	$\pm 10\%$ Full Scale for zero and span
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Zero effect is $\pm 0.011\%$ Full Scale/°F Span effect is $\pm 0.011\%$ Full Scale/°F Ambient -4 °F to 176 °F (-20 °C to 80 °C) Media -4 °F to 185 °F (-20 °C to 85 °C) Storage -22 °F to 221 °F (-30 °C to 105 °C)
Wetted materials	Model 625 is 316 stainless steel for ranges up through 0 psi to 300 psi, 316 stainless steel with 17-4PH stainless steel diaphragm for ranges 0 psi to 300 psi and higher; Model 626 is 316 stainless steel with BUNA N O-ring; Hastelloy® C4 optional; Viton® O-ring optional
Housing material	316 stainless steel
Environmental rating	IP65 to IP67 depending upon electrical connection
Electromagnetic rating	Meets EMC norm EN61326: 1997/A1 1998 RFI, EMI and ESD protected
Electrical rating	Reverse polarity, over-voltage and short circuit protected
Shock	1000 g's according to IEC770 for mechanical shock
Vibration	20 g's according to IEC770 under resonance conditions
Hazardous approvals	Factory Mutual and Canadian Standards Association approved as indicated ANSI/ISA-12.27.01-2003, Approved single seal
Weight	Approximately 7 oz.

NOSHOK Model 625 and 626 transmitters are 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 1, Groups E, F and G

Non incandive for Class I, Division 2, Groups A, B, C and D
FMRC 3600, 3610, 3611, 3810 (including supplement #1),
ISA-S12.0. 01, IEC 60529 (including amendment #1)

ORDERING INFORMATION

SERIES 625	Stainless steel threaded connection	SERIES 626S	316 stainless steel flush diaphragm	SERIES 626H	Hastelloy flush diaphragm
PRESSURE RANGES	0 inH ₂ O to 50 inH ₂ O 50 IN 0 inH ₂ O to 100 inH ₂ O 100 IN -30 inHg to 0 psig 30V -30 inHg to 30 psig 30/30 -30 inHg to 60 psig 30/60 -30 inHg to 100 psig 30/100 -30 inHg to 150 psig 30/150 -30 inHg to 200 psig 30/200	0 psig to 2 psig 0 psig to 3 psig 0 psig to 5 psig 0 psig to 15 psig 0 psig to 30 psig 0 psig to 50 psig 0 psig to 100 psig 0 psig to 150 psig	2 0 psig to 200 psig 3 0 psig to 300 psig 5 0 psig to 500 psig 15 0 psig to 750 psig 30 0 psig to 1000 psig 50 0 psig to 1500 psig 100 0 psig to 2000 psig 150 0 psig to 3000 psig	200 0 psig to 5000 psig 300 0 psig to 8000 psig 500 0 psig to 10000 psig 750 0 psig to 15000 psig 1000 0 psig to 25000 psig 1500 0 psig to 40000 psig 2000 0 psig to 60000 psig 3000	5000 0 psia to 15 psia 8000 0 psia to 30 psia 10000 0 psia to 60 psia 15000 0 psia to 100 psia 25000 0 psia to 150 psia 40000 0 psia to 200 psia 60000 0 psia to 300 psia
	psig = Gauge Pressure psia = Absolute Pressure Other ranges available on special request NOTE: Series 626 is available for pressure ranges up to 0 psig to 8000 psig				
ACCURACY	1 ±0.25 % Full Scale (BFSL) 2 ±0.125 % Full Scale (BFSL)				
OUTPUT SIGNALS	1 4 mA to 20 mA, 2-wire				
PROCESS CONNECTIONS	2 1/4" NPT Male 3 7/16"-20 UNF SAE #4 Male 8 1/2" NPT Male 11 G1/2B Male flush (model 626 only) 13 G1B Male flush (model 626 only) (pressure ranges 0 psig to 30 psig and higher) (pressure ranges less than 0 psig to 30 psig)				
ELECTRICAL CONNECTIONS	1 36" cable (connected to option 8) 3 6-pin bendix - IP65 8 Hirschmann (DIN EN 175301-803 Form A) 14 Hirschmann connector 1/2" NPT conduit - IP65 25 M12x1 4-pin IP67 36 Integral cable 36" - IP67				
OPTIONS	ORF Threaded Orifice (model 625 only)				

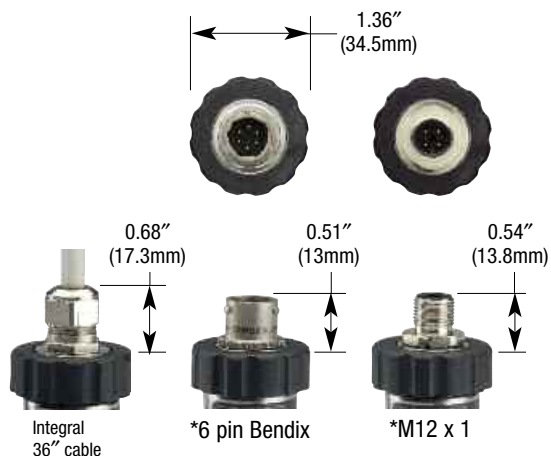
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

EXAMPLE

Series 625
 Pressure Range 0 psig to 500 psig
 Accuracy ± 0.25 % Full Scale
 Output Signal 4 mA to 20 mA
 Process Connection 1/2" NPT Male
 Electrical Connection Hirschmann
 Option Threaded Orifice

625 - 500 - 1 - 1 - 8 - 8 - ORF

Outline Dimensions



*Note: mate supplied separately or customer supplied

2-WIRE WIRING

	Hirschmann	Cable	M12	Bendix
+ Supply	1	Red/Brown	1	A
+ Output	2	Black/Green	3	B



NOTE

See 621/622 Series for G1/2B and G1B Front Flush Process Connection Dimensions pg. 27