



Meets 3A requirements for the food & beverage, dairy, pharmaceutical and biotechnology industries in addition to ASME BPE-2009 and CE compliant.

FEATURES

- Meets current 3A standards and ASME BPE-2009
- CE compliant
- Current or voltage output signals available to suit most applications
- NEMA 4X, IP65 (IEC529)
- Diffused semiconductor or sputtered thin film sensor for maximum stability
- Can be cleaned-in-place or steamed-in-place
- High accuracy and long term stability
- Integral cooling extension allows for higher media temperatures

SERIES 11

HIGH PERFORMANCE SANITARY PRESSURE TRANSMITTERS

The NOSHOK Series 11 Sanitary Pressure Transmitter is designed for heavy duty sanitary applications where high accuracy and durability are required. Using diffused semiconductor or sputtered thin film sensor technology these transducers are stable, accurate, shock resistant and extremely durable.

The housing is constructed of 316SS and welded to the process connection for greater strength and integrity. The available 1 1/2 inch or 2 inch Tri-Clamp[®] connection, with its integral cooling extension, is 316L stainless steel and wetted parts are electro-polished to Ra25 microinch or better.

NOSHOK Series 11 Sanitary Transmitters meet 3A requirements for the food & beverage, dairy, pharmaceutical and biotechnology industries in addition to ASME BPE-2009 and CE compliant.

A final electrical output and calibration inspection is performed on all NOSHOK transmitters prior to shipment to ensure 100% "out-of-the-box" reliability.

SPECIFICATIONS

Output Signals	4mA to 20mA 2-wire, 0Vdc to 5Vdc 3-wire, 1Vdc to 5Vdc 3-wire, 1Vdc to 6Vdc 3-wire, 0Vdc to 10Vdc, 3-wire, 1Vdc to 11Vdc 3-wire
Pressure Ranges	Standard gauge ranges from vacuum to 400 psig
Proof Pressure	3 times Full Scale for ranges 0 psig to 2 psig through 0 psig to 200 psig 1.75 times Full Scale for ranges 0 psig to 300 psig through 0 psig to 400 psig
Burst Pressure	3.8 times Full Scale for ranges 0 psig to 2 psig through 0 psig to 200 psig 4 times Full Scale for ranges 0 psig to 300 psig through 0 psig to 400 psig
Accuracy	±0.25% Full Scale (B.F.S.L); Optional ±0.125% Full Scale (BFSL); (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Repeatability	±0.05% Full Scale
Hysteresis	±0.1% Full Scale
Stability	±0.2% Full Scale for 1 year, non accumulating
Power Supply	10Vdc to 30Vdc for current output 14Vdc to 30Vdc for voltage output, unregulated
Load limitations	≤ (VPower -10)/0.020 Amp for 4 mA to 20 mA output ≤ 5,000 Ω for 1 Vdc to 5 Vdc output ≤ 10,000 Ω for 0 Vdc to 10 Vdc output ≤ 4,500 Ω for 0.5 Vdc to 4.5 Vdc output
Case Materials	316 stainless steel
Temperature Ranges	Compensated 32°F to 175°F (0°C to 80°C) Effect ±0.01%/°F for zero and span Ambient -40°F to 176°F (-40°C to 80°C)
Adjustment	±10% Full Scale for zero and span
Environment Protection	NEMA 4X, IP65 (IEC 529)
Electromagnetic Rating	CE compliant to EMC norm EN61326: 1997/A1: 1998 RFI, EMI, ESD protection
Electrical Protection	Reverse polarity, overvoltage and short circuit protection
Process Connection	1 1/2 inch or 2 inch Tri-Clamp [®]
Seal Housing Material	316L stainless steel
Diaphragm Material	316L stainless steel electropolished to Ra25 or better
Fill Fluid	White Oil (FLL 77), USP grade
Media Temperature	-40°F to 300°F (-40°C to 150°C)

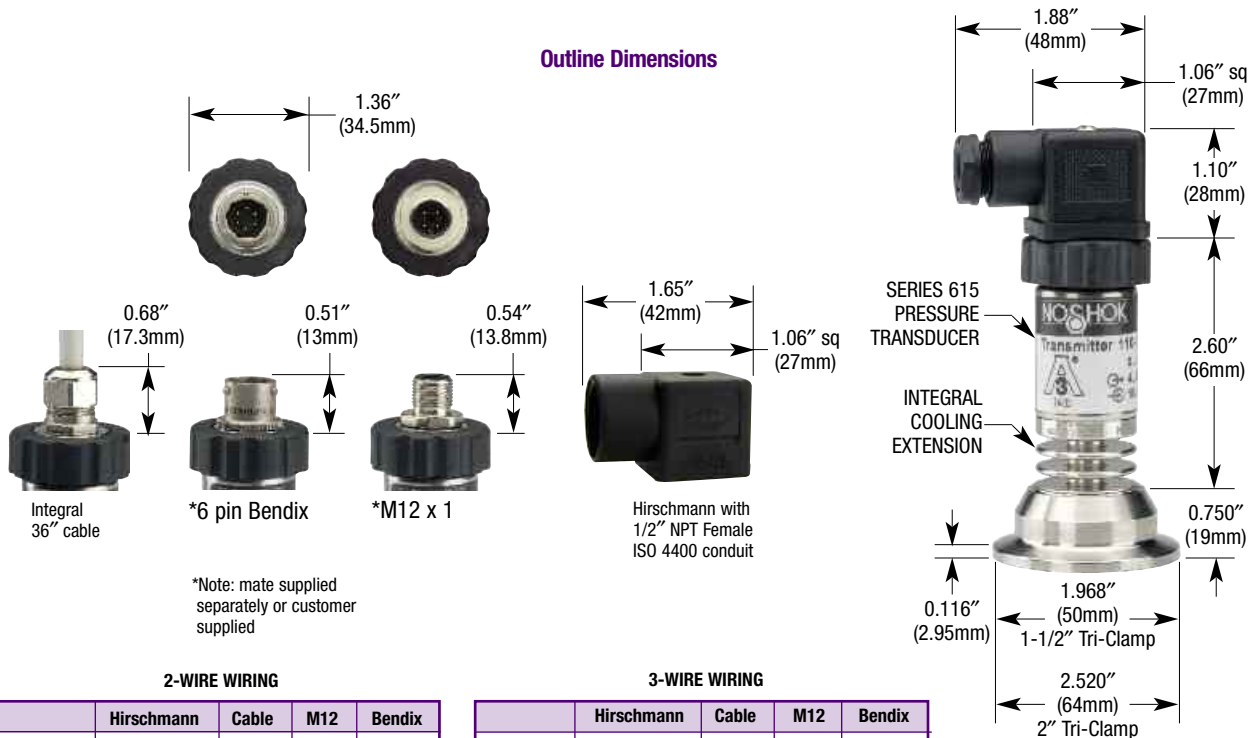
ORDERING INFORMATION				
SERIES 11	110			
CLAMP SIZE	12 1 1/2 Inch	16 2 Inch		
SEAL FILL FLUID	4 FFL77 White Oil	Other Food Grade Quality Fill Fluids Available - Please Consult Factory		
TRANSMITTER	615 Series 615 Transmitter			
ACCURACY	1 ±0.25% Full Scale (BFSL)	2 ±0.125% Full Scale		
PRESSURE RANGE	-30 inHg to 0 psig 01	-30 inHg to 150 psig 16	0 psig to 10 psig 37	0 psig to 150 psig 52
	-30 inHg to 15 psig 04	-30 inHg to 200 psig 19	0 psig to 15 psig 40	0 psig to 200 psig 58
	-30 inHg to 30 psig 07	-30 inHg to 300 psig 22	0 psig to 30 psig 43	0 psig to 300 psig 61
	-30 inHg to 60 psig 10	0 psig to 100 inH ₂ O 31	0 psig to 60 psig 46	0 psig to 400 psig 64
	-30 inHg to 100 psig 13	0 psig to 5 psig 34	0 psig to 100 psig 49	
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	
	4 1 Vdc to 6 Vdc, 3-wire	5 0 Vdc to 10 Vdc, 3-wire	6 1 Vdc to 11 Vdc, 3-wire	
ELECTRICAL CONNECTION	1 36" cable attached to Hirschmann	14 Hirschmann connection with ISO 4400 1/2 inch NPT conduit		
	3 6-pin Bendix	25 M12 X 1 4-pin		
	8 Hirschmann (DIN EN 175301-803 Form A)	36 Integral 36" Cable		

EXAMPLE

SeriesSeries 11 Sanitary Transmitter
 Clamp Size1 1/2" Tri-Clamp®
 Seal Fill FluidWhite oil
 Transmitter615 Series
 Accuracy±0.25% Full Scale
 Pressure Range0 psig to 5 psig
 Output Signal4 mA to 20 mA, 2-wire
 Electrical ConnectionHirschmann with 3 feet of cable

110 - 12 - 4 - 615 - 1 - 34 - 1 - 1

Outline Dimensions



*Note: mate supplied separately or customer supplied

2-WIRE WIRING

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

3-WIRE WIRING

	Hirschmann	Cable	M12	Bendix
+ Supply	1	Red	1	A
Common	2	Black	3	B
+ Output	3	White	4	C