



**Meets 3A requirements for the food & beverage, dairy, pharmaceutical and biotechnology industries in addition to ASME BPE-2002 and CE compliant.**

#### FEATURES

- Meets current 3A standards and ASME BPE-2002
- 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-2002 and CE compliant.

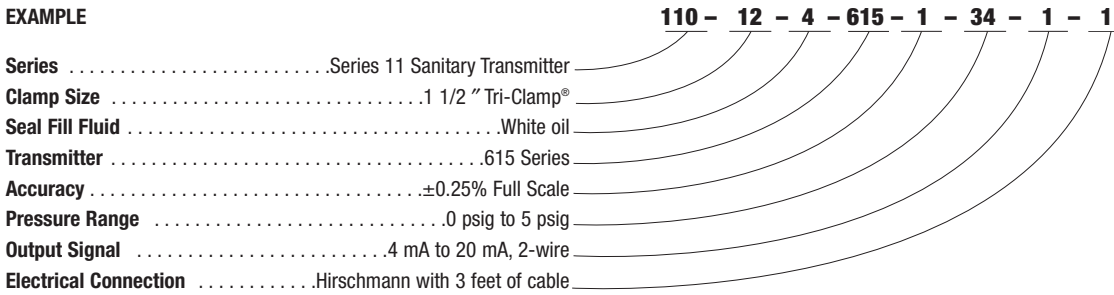
A final electrical output and calibration inspection is performed on all NOSHOK transmitters prior to shipment to ensure 100% "out-of-the-box" reliability.

### SPECIFICATIONS

<b>Output Signals</b>	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
<b>Pressure Ranges</b>	Standard gauge ranges from vacuum to 400 psig
<b>Proof Pressure</b>	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
<b>Burst Pressure</b>	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
<b>Accuracy</b>	±0.25% Full Scale (B.F.S.L) ±0.125% Full Scale (optional)
<b>Repeatability</b>	±0.05% Full Scale
<b>Hysteresis</b>	±0.1% Full Scale
<b>Stability</b>	±0.2% Full Scale for 1 year, non accumulating
<b>Power Supply</b>	10Vdc to 30Vdc for current output 14Vdc to 30Vdc for voltage output, unregulated
<b>Load limitations</b>	≤ (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
<b>Case Materials</b>	316 stainless steel
<b>Temperature Ranges</b>	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)
<b>Adjustment</b>	±10% Full Scale for zero and span
<b>Environment Protection</b>	NEMA 4X, IP65 (IEC 529)
<b>Electromagnetic Rating</b>	CE compliant to EMC norm EN61326: 1997/A1: 1998 RFI, EMI, ESD protection
<b>Electrical Protection</b>	Reverse polarity, overvoltage and short circuit protection
<b>Process Connection</b>	1 1/2 inch or 2 inch Tri-Clamp®
<b>Seal Housing Material</b>	316L stainless steel
<b>Diaphragm Material</b>	316L stainless steel electropolished to Ra25 or better
<b>Fill Fluid</b>	White Oil (FLL 77), USP grade
<b>Media Temperature</b>	-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 (Best fit straight line)				2	±0.125% Full Scale			
PRESSURE RANGE	30 " Hg to 0 psig	01	30 " Hg to 150 psig	16	0 psig to 10 psig	37	0 psig to 150 psig	52		
	30 " Hg to 15 psig	04	30 " Hg to 200 psig	19	0 psig to 15 psig	40	0 psig to 200 psig	58		
	30 " Hg to 30 psig	07	30 " Hg to 300 psig	22	0 psig to 30 psig	43	0 psig to 300 psig	61		
	30 " Hg to 60 psig	10	0 psig to 100 " H <sub>2</sub> O	31	0 psig to 60 psig	46	0 psig to 400 psig	64		
	30 " Hg to 100 psig	13	0 psig to 5 psig	34	0 psig to 100 psig	49				
OUTPUT SIGNAL	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	1/2 " ISO 4400 Conduit				
	3	6-pin Bendix			25	M12 X 1 4-pin				
	8	Hirschmann (DIN EN 175301-803 Form A)			36	Integral 36 " Cable				

EXAMPLE



Outline Dimensions

