



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
- Span and zero adjustments
- NEMA 4X, IP65 (IEC529)
- Sputtered thin film sensor for maximum stability and shock resistance
- Ranges from 1000 psig to 15000 psig
- High accuracy and long term stability
- Can be cleaned-in-place or steamed-in-place

SERIES 21

HIGH PERFORMANCE HOMOGENIZER TRANSMITTERS

The NOSHOK Series 21 Homogenizer Pressure Transmitter is a high accuracy, heavy duty pressure transmitter designed for the demanding requirements found in high pressure sanitary homogenizer applications. Using proven sputtered thin film sensor technology these transducers are stable, highly accurate, shock resistant and extremely durable.

The NOSHOK Series 21 is offered in a variety of Current or Voltage output signals and is constructed of 316SS. The housing is welded to the 316L stainless steel process connection for greater strength and durability while providing exceptional corrosion resistance. Wetted parts are electro polished to Ra25 or better providing a cleaner, more sanitary surface.

NOSHOK Series 21 homogenizer transmitters meet the current standards for 3A and ASME BPE-2009 in addition to being 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 1000 psig to 15000 psig
Proof Pressure	1.75 times full scale for ranges 0 psig to 300 psig through 0 psig to 10000 psig 1.5 times full scale for ranges 0 psig to 15000 psig
Burst Pressure	4 times Full Scale for ranges 0 psig to 300 psig through 0 psig to 10000 psig 3 times full scale for ranges 0 psig to 15000 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, unregulated 14Vdc to 30Vdc for voltage output, unregulated
Power Supply	≤ (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
Housing Materials	316 stainless steel
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
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 1/8 inch Homogenizer Flange
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 21	210							
CLAMP SIZE	42 1 1/8 Inch Flange							
SEAL FILL FLUID	4 FFL77 White Oil (Other Fill Fluids Available - Please Consult Factory)							
TRANSMITTER	615 Series 615 Transmitter							
ACCURACY	1 ±0.25% Full Scale (BFSL)		2 ±0.125% (BFSL)					
PRESSURE RANGE	0 psig to 1000 psig	73	0 psig to 2000 psig	79	0 psig to 5000 psig	85	0 psig to 10000 psig	91
	0 psig to 1500 psig	76	0 psig to 3000 psig	82	0 psig to 6000 psig	88	0 psig to 15000 psig	94
OUTPUT SIGNAL	1 4 mA to 20 mA, 2-wire		3 1 Vdc to 5 Vdc, 3-wire		5 0 Vdc to 10 Vdc, 3-wire			
	2 0 Vdc to 5 Vdc, 3-wire		4 1 Vdc to 6 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

210 - 42 - 4 - 615 - 1 - 85 - 1 - 8

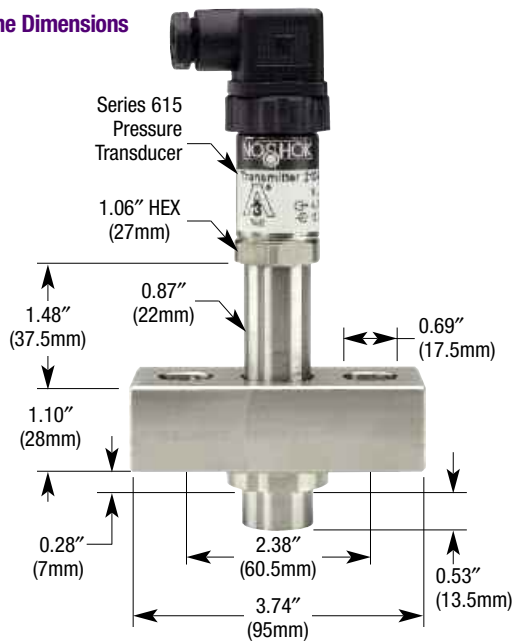
Series Series 21 homogenizer transmitter
 Clamp Size 1 1/8" homogenizer flange
 Seal Fill Fluid White oil
 Transmitter 615 Series
 Accuracy ±0.25% Full Scale
 Pressure Range 0 psig to 5000 psig
 Output Signal 4 mA to 20 mA, 2-wire
 Electrical Connection Hirschmann (DIN EN 175301-803 Form A)



2-WIRE WIRING

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

Outline Dimensions



3-WIRE WIRING

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

(Custom Flange Dimensions To Your Specification - Please Consult Factory)