



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
- 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.

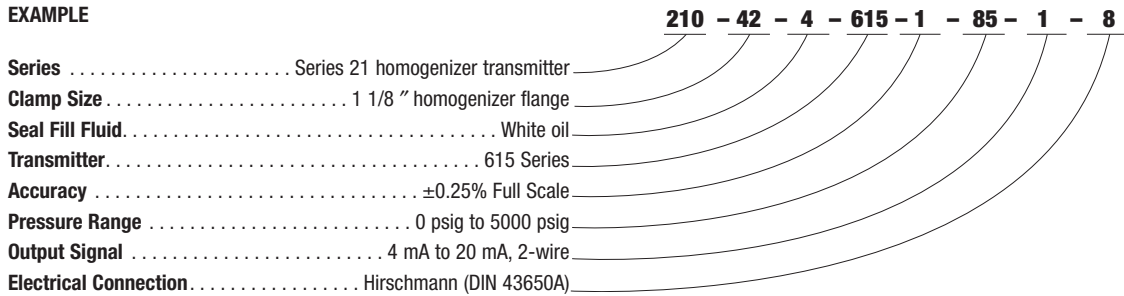
NOSHOK Series 21 homogenizer transmitters meet the current standards for 3A and ASME BPE-2002 in addition to being CE compliant. A final electrical output and calibration inspection is performed on all NOSHOK transmitters prior to shipment to ensure 100% "out-of-the-box" reliability.

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) ±0.125% Full Scale (optional) |
| 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 (Best fit straight line) | | 2 ±0.125% (Best fit straight line) | | | | | |
| 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 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 " | | | | |
| | | | | | | | | |

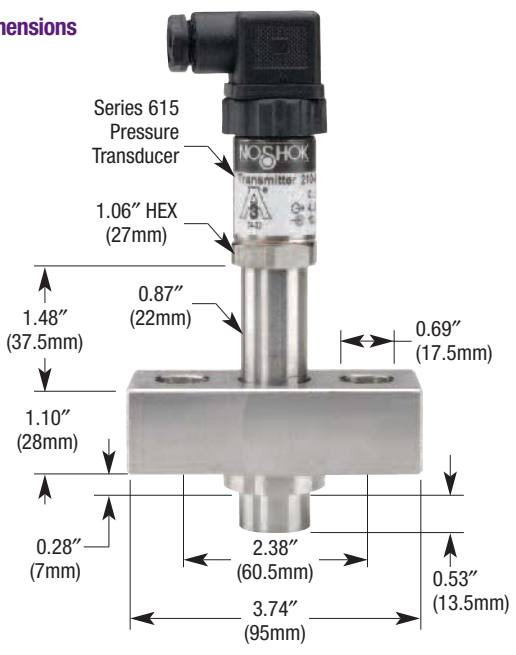
EXAMPLE



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)