



11 SERIES

- Ranges from vacuum through 0 psig to 400 psig
- Current and voltage outputs available
- 316 Stainless Steel wetted parts
- Can be cleaned-in-place (CIP) or steamed-in-place (SIP)
- 3A certified
- CE compliant to suppress RFI, EMI and ESD

APPLICATIONS

- Food & beverage processing
- Pasteurization systems
- Pharmaceutical
- Medical

SPECIFICATIONS

| | |
|-------------------------------|---|
| Output signals | 4 mA to 20 mA 2-wire, 0 Vdc to 5 Vdc 3-wire, 1 Vdc to 5 Vdc 3-wire, 1 Vdc to 6 Vdc 3-wire, 0 Vdc to 10 Vdc, 3-wire, 1 Vdc to 11 Vdc 3-wire |
| Pressure ranges | Vacuum through 0 psig to 400 psig |
| Accuracy | ±0.25% full scale (BFSL); Optional ±0.125% full scale (BFSL); (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors) |
| Stability | ±0.2% full scale for 1 year, non-accumulating |
| Adjustment | ±10% full scale for zero and span |
| Response time | < 10 ms |
| Service life | > 100,000,000 load cycles |
| Temperature ranges | Compensated 32 °F to 175 °F (0 °C to 80 °C) Effect ±0.01%/°F for zero and span Media -40 °F to 300 °F (-40 °C to 150 °C) Ambient -40 °F to 176 °F (-40 °C to 80 °C) Storage -40 °F to 212 °F (-40 °C to 100 °C) |
| Power requirement* | 10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire, 0 Vdc to 5 Vdc, 3-wire, 1 Vdc to 5 Vdc, 3-wire, 1 Vdc to 6 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire, Vdc to 11 Vdc, 3-wire) |
| 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 |
| Proof pressure | 3 times full scale for 0 psig to 2 psig through 0 psig to 200 psig 1.75 times full scale for 0 psig to 300 psig through 0 psig to 400 psig |
| Burst pressure | 3.8 times full scale for 0 psig to 2 psig through 0 psig to 200 psig 4 times full scale for 0 psig to 300 psig through 0 psig to 400 psig |
| Measuring element | 316 Stainless Steel |
| Connection | 316 Stainless Steel |
| Housing material | 316 Stainless Steel |
| Environmental rating | IP65 |
| Electromagnetic rating | CE compliant to EMC norm EN 61326:2014/A1:1998 RFI, EMI and ESD protection |
| Electrical protection | Reverse polarity, overvoltage and short circuit protection |
| Shock | 1,000 g's according to IEC 60068-2-27 |
| Vibration | 15 g's according to IEC 60068-2-6 |
| Weight | Approximately 1.1 lb. |

* Unregulated

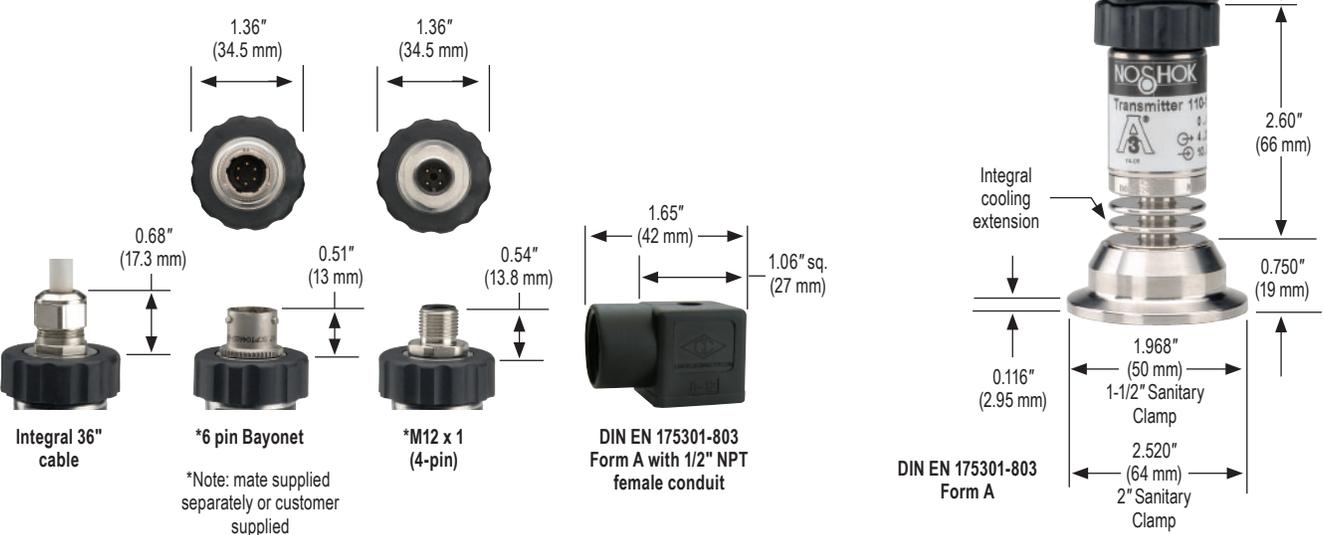
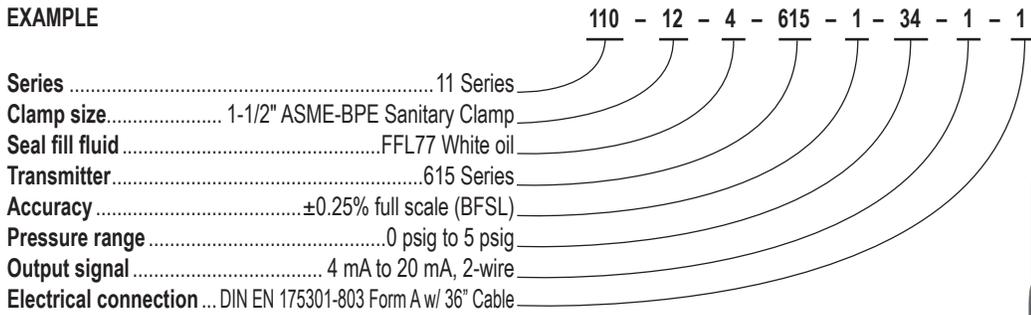
Diaphragm seal must be installed facing downward or in a vertical position for drainability.
Do not install diaphragm seal facing in an upward position.



| ORDERING INFORMATION | | | | |
|-------------------------------|--|--|---------------------------|-----------------------|
| SERIES | 110 | | | |
| CLAMP SIZES | 12 1-1/2" | 16 2" | | |
| SEAL FILL FLUID | 4 FFL77 White oil Other food grade quality fill fluids available — please consult factory | | | |
| TRANSDUCER | 615 615 Series transducer | | | |
| ACCURACIES | 1 ±0.25% full scale (BFSL) | 2 ±0.125% full scale | | |
| PRESSURE RANGES | 01 -30 inHg to 0 psig | 16 -30 inHg to 150 psig | 37 0 psig to 10 psig | 55 0 psig to 160 psig |
| | 04 -30 inHg to 15 psig | 19 -30 inHg to 200 psig | 40 0 psig to 15 psig | 58 0 psig to 200 psig |
| | 07 -30 inHg to 30 psig | 22 -30 inHg to 300 psig | 43 0 psig to 30 psig | 61 0 psig to 300 psig |
| | 10 -30 inHg to 60 psig | 31 0 psig to 100 inH ₂ O | 46 0 psig to 60 psig | 64 0 psig to 400 psig |
| | 13 -30 inHg to 100 psig | 34 0 psig to 5 psig | 49 0 psig to 100 psig | |
| OUTPUT SIGNALS | 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 CONNECTIONS | 1 DIN EN 175301-803 Form A w/ 36" Cable | 14 DIN EN 175301-803 Form A with 1/2" NPT female conduit | | |
| | 3 6-pin Bayonet | 25 M12 X 1 (4-pin) | | |
| | 8 DIN EN 175301-803 Form A | 36 Integral 36" cable | | |
| | | | | |

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

EXAMPLE



2-WIRE WIRING

| | DIN EN 175301-803 Form A | Cable | M12 | Bayonet |
|----|--------------------------|-------|-----|---------|
| V+ | 1 | Red | 1 | A |
| V- | 2 | Black | 3 | B |

3-WIRE WIRING

| | DIN EN 175301-803 Form A | Cable | M12 | Bayonet |
|--------|--------------------------|-------|-----|---------|
| V+ | 1 | Red | 1 | A |
| Common | 2 | Black | 3 | B |
| Output | 3 | White | 4 | C |