Current Output Pressure Transmitters





FEATURES

- Accuracy up to ±0.25 % Full Scale (Best Fit Straight Line)
- Welded stainless steel pressure chamber
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- Compact size
- High alternating load resistance
- High overpressure protection
- CE compliant to suppress RFI, EMI and ESD
- Compatible with NOSHOK Smart System Indicators

APPLICATIONS

- Hydraulic and pneumatic systems
- Injection molding machines
- Railroad engine controls
- HVAC systems
- Stamping and forming presses
- Refrigeration controls
- Industrial machinery and machine tools
- Pumps and compressors

SERIES 100

HIGH PERFORMANCE CURRENT OUTPUT PRESSURE TRANSMITTERS

NOSHOK 100 Series Current Output Pressure Transmitters are designed to provide a previously unequalled level of performance, utilizing diffused semiconductor and sputtered thin film strain gage technology. 100 Series transmitters are highly repeatable, shock resistant and are extremely stable over long periods of time. CE compliance which includes substantial levels of RFI, EMI and ESD protection combined with reverse polarity and over-voltage protection insure they perform well in the most demanding applications.

Advanced manufacturing techniques combined with technologically advanced standard features allow NOSHOK to offer a level of performance previously found only on transducers costing hundreds of dollars more. Final calibration tests performed on all NOSHOK transmitters prior to shipment ensures 100% "out of the box" reliability

	SPECIFICATIONS
Output signal	4 mA to 20 mA, 2-wire
Pressure ranges	Standard gauge ranges from vacuum to 15000 psi; Standard Absolute ranges from 15 psia to 300 psia
Proof pressure	3 times Full Scale for ranges 0 psi to 5 psi through 0 psi to 200 psi 1.75 times Full Scale for ranges 0 psi to 300 psi through 0 psi to 10000 ps 1.5 times Full Scale for 0 to 15000 psi range
Burst pressure	3.8 times Full Scale for ranges 0 psi to 5 psi through 0 psi to 200 psi 4 times Full Scale for ranges 0 psi to 300 psi through 0 psi to 10000 psi 3 times Full Scale for 0 to 15000 psi range
Accuracy	±0.5 % Full Scale (Best Fit Straight Line); ±0.25 % optional (Includes the combined effects of linearity, hysteresis and repeatability)
Repeatability	≤ ±0.05 % Full Scale
Hysteresis	≤±0.1 % Full Scale
Stability	≤ ±0.2 % Full Scale for 1 year, non-accumulating
Response time	≤ 1 ms (between 10 % and 90 % Full Scale)
Power supply	10 Vdc to 30 Vdc, unregulated
Load limitations	≤ (Vpower supply −10)/.020 Amp
Wetted materials	316 stainless steel for vacuum through 300 psi; 17-4PH stainless steel sensing diaphragm and 316 stainless steel process connection for higher ranges
Housing material	316 stainless steel
Adjustment	±10 % Full Scale for zero and span
Pressure cycle limit	150 Hz
Durability	> 100,000,000 Full Scale cycles
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Effect ±0.017 % Full Scale/°F for zero and span Ambient -40 °F to 185 °F (-40 °C to 85 °C) Media -22 °F to 212 °F (-30 °C to 100 °C) Storage -40 °F to 212 °F (-40 °C to 100 °C)
Environmental rating	IP65, NEMA 4X according to EN 60529/IEC 529
Electromagnetic rating	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection
Electrical protection	Reverse polarity, over-voltage and short circuit protection
Shock	1000 g's per IEC 770
Vibration	30 g's per IEC 770
Weight	Approximately 3.5 oz.

WIRING DIAGRAMS ELECTRICAL CONNECTIONS

	ORDERING INFORMATION		
SERIES 100			
PRESSURE RANGES	-30 inHg to 100 psig 30/100 0 psig to 60 psig 60 0 psig to 750 psig 750 0 psig to 7500 psig 7500 0 psia to 150 psia 1 -30 inHg to 150 psig 30/150 0 psig to 100 psig 100 0 psig to 1000 psig 1000 0 psig to 10000 psig 1000 0 psia to 200 psia 2	15A 30A 60A 100A 150A 200A 300A	
ACCURACY	1 ±0.5 % Full Scale (Best Fit Straight Line) 2 ±0.25 % Full Scale (Best Fit Straight Line)		
ОИТРИТ	1 4 mA to 20 mA, 2-wire		
PROCESS CONNECTIONS	1 1/8 "NPT male 2 1/4 "NPT male 3 7/16 " -20 UNF #4 SAE J-514 male 4 1/8 "NPT female 9 7/16 " -20 UNF #4 SAE J-514 female 1/4 "BSP male 4 1/8 "NPT female		
ELECTRICAL CONNECTION	1 36 " cable (connected to option 7)2 4-pin bendix3 6-pin bendix6 1/2 " NPT conduit (with 36" cable)7 Mini-Hirschmann (DIN EN 175301-803 Form C)25 M12 x 1 4-pin36 Integral cable 36"		
OPTIONS	ORF Threaded orifice		

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

