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 noise interference
- 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 noise protection combined with reverse polarity and over-voltage protection hardens the product so it performs well in the most demanding applications.

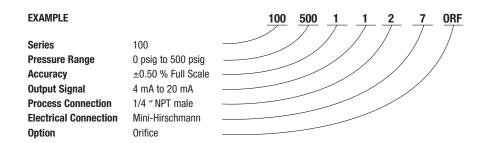
Advanced manufacturing techniques combined with technologically advanced standard features allow NOSHOK to offer a level of performance previously found only on transducers costing hundreds of dollars more. Final calibration tests performed on all NOSHOK transmitters prior to shipment ensures 100% "out 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 psi 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	\leq ±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	Load in resistance must be ≤ (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 0 psig -30 inHg to 15 psig -30 inHg to 30 psig -30 inHg to 60 psig -30 inHg to 100 psig -30 inHg to 150 psig -30 inHg to 200 psig -30 inHg to 300 psig	30V 30/15 30/30 30/60 30/100 30/150 30/200 30/300	O psig to 5 psig O psig to 10 psig O psig to 15 psig O psig to 30 psig O psig to 60 psig O psig to 100 psig O psig to 150 psig psig = gauge pressu	5 10 15 30 60 100 150	O psig to 200 psig O psig to 300 psig O psig to 500 psig O psig to 600 psig O psig to 750 psig O psig to 1000 psig O psig to 1000 psig O psig to 1500 psig sia = absolute pressure	200 300 500 600 750 1000 1500 Other ran	O psig to 2000 psig O psig to 3000 psig O psig to 5000 psig O psig to 6000 psig O psig to 7500 psig O psig to 10000 psig O psig to 15000 psig spess available on special reques	2000 3000 5000 6000 7500 10000 15000 tt ranges	O psia to 15 psia O psia to 30 psia O psia to 60 psia O psia to 100 psia O psia to 150 psia O psia to 150 psia O psia to 200 psia O psia to 300 psia	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)									
OUTPUT	1 4 mA to 20 mA									
PROCESS CONNECTION	1 1/8 " NPT male		2 1/4 " NPT male		3 7/16 " -20 UNF #4	SAE J-514	male			
ELECTRICAL CONNECTION	1 36 " cable (connected to option 7) 2 4-pin bendix 3 6-pin bendix 6 1/2 " NPT conduit (with 36" cable) 7 Mini-Hirschmann (DIN 43650C with mate) 25 M12 x 1 4-pin									
OPTIONS	ORF Threaded orifice (.3mm)									

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





1/2 " NPT Conduit with 36 " jacketed cable



4 and 6 pin Bendix (mate supplied separately or customer supplied)



(mate supplied separately or customer supplied)

Wire	Bendix 4-pin or 6-pin	Mini- Hirschmann	Cable	M12 x 1
+ Supply	pin A	pin 1	Red	pin 1
+ Output	pin B	pin 2	Black	pin 3

