PRESSURE





35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001

Voltage Output Pressure Transducers



FEATURES

- Accuracy up to ±0.25 % Full Scale (Best Fit Straight Line)
- Welded stainless steel pressure chamber
- Advanced diffused semi-conductor 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 200

HIGH PERFORMANCE VOLTAGE OUTPUT PRESSURE TRANSDUCERS

NOSHOK 200 Series Voltage Output Pressure Transducers are designed to provide a previously unequalled level of performance, utilizing diffused semiconductor and sputtered thin film strain gage technology. 200 Series transducers 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.

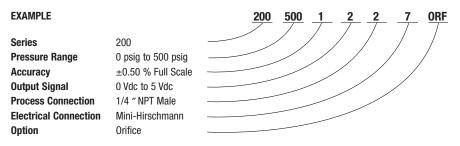
Advanced manufacturing techniques combined with technologically advanced standard features allow NOSHOK to offer a level of performance previously found only on transducers costing hundreds of dollars more. Final calibration tests performed on all NOSHOK transmitters prior to shipment ensures 100% "out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

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	SPECIFICATIONS
Output signals	0 Vdc to 5 Vdc, 3-wire; 0 Vdc to 10 Vdc, 3-wire; 1 Vdc to 5 Vdc, 3-wire; 1 Vdc to 6 Vdc, 3-wire; 1 Vdc to 11 Vdc, 3-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 psi 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 psi 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 per year, non-accumulating
Response time	\leq 1 ms (between 10 % and 90 % Full Scale)
Power supply	10 Vdc to 30 Vdc, 14 Vdc to 30 Vdc for 1 Vdc to 11 Vdc and 0 Vdc to 10 Vdc unregulated
Load limitations	Load in resistance must be \geq 5000 Ω for 0 Vdc to 5 Vdc, 1 Vdc to 5 Vdc, and 1 Vdc to 6 Vdc outputs; load in resistance must be \geq 10000 Ω for 0 Vdc to 10 Vdc and 1 Vdc to 11 Vdc outputs. Current consumption 8 mA
Wetted materials	316 stainless steel for vacuum through 300 psi; 17-4PH stainless steel sensing diaphragm and 316 stainless steel pressure 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)
Environmental rating	IP65, NEMA 4X according to EN 60529/IEC 529
Electromagnetic rating	CE compliant to EMC norm EN61326: 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 200											
PRESSURE RANGES	-30 inHg to 0 -30 inHg to 3 -30 inHg to 3 -30 inHg to 3 -30 inHg to 3 -30 inHg to 2	15 psig 30 psig 60 psig 100 psig 150 psig 200 psig	30V 30/15 30/30 30/60 30/100 30/150 30/200 Ige Pressure	-30 inHg to 300 psig 0 psig to 5 psig 0 psig to 10 psig 0 psig to 15 psig 0 psig to 30 psig 0 psig to 60 psig 0 psig to 100 psig psia = Absolo	30/300 5 10 15 30 60 100 tte Pressure	O psig to 150 psig 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	150 200 300 500 600 750 1000 ailable on sp	O psig to 1500 psig 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	1500 2000 3000 5000 6000 7500 10000	O psig to 15000 psig 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 200 psia O psia to 300 psia	15000 15A 30A 60A 100A 150A 200A 300A
ACCURACY	1 ±0.5 % Full Scale (Best Fit Straight Line) 2 ±0.25 % Full					Full Scale	(Best Fit Straight Line)				
OUTPUT SIGNALS 2 0 Vdc t		to 5 Vdc	3 1 Vdc to 5 Vdc		4 1 Vdc to 6 Vdc 5 0 Vd		5 0 Vdc to	to 10 Vdc 6 1 Vdc to 11 Vdc			
PROCESS CONNE	CTIONS		NPT male " -20 UNF #	2 1/4 " N 4 SAE J-514 female	PT male	3 7/16 " -20 10 1/4 " BSP		SAE J-514 male		4 1/8 " NPT female	
ELECTRICAL CON		6 1/2 " N	PT conduit	with 36 " cable)		schmann (DIN 43650C v	,	3 6-pin bendix 25 M12 x 1 4-pin tions for use with other ele		tems.	
OPTIONS		ORF	Threaded	Orifice (.3 mm)							

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)



M12 x 1 (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
Common	pin B	pin 2	Black	pin 3
+ Output	pin C	pin 3	White	pin 4

