



FEATURES

- Accuracy up to $\pm 0.25\%$ 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
- 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

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	$\pm 0.5\%$ Full Scale (Best Fit Straight Line); $\pm 0.25\%$ optional (Includes the combined effects of linearity, hysteresis and repeatability)
Repeatability	$\leq \pm 0.05\%$ Full Scale
Hysteresis	$\leq \pm 0.1\%$ Full Scale
Stability	$\leq \pm 0.2\%$ Full Scale per year, non-accumulating
Response time	≤ 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	≥ 5000 for 0 Vdc to 5 Vdc, 1 Vdc to 5 Vdc, and 1 Vdc to 6 Vdc outputs; ≥ 10000 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	$\pm 10\%$ 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 $\pm 0.017\%$ 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 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.

ORDERING INFORMATION										
SERIES 200										
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	30V 30/15 30/30 30/60 30/100 30/150 30/200	-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	30/300 5 10 15 30 60 100	0 psig to 150 psig 0 psig to 200 psig 0 psig to 300 psig 0 psig to 500 psig 0 psig to 600 psig 0 psig to 750 psig 0 psig to 1000 psig	150 200 300 500 600 750 1000	0 psig to 1500 psig 0 psig to 2000 psig 0 psig to 3000 psig 0 psig to 5000 psig 0 psig to 6000 psig 0 psig to 7500 psig 0 psig to 10000 psig 0 psig to 15000 psig	1500 2000 3000 5000 6000 7500 10000 15000	0 psia to 15 psia 0 psia to 30 psia 0 psia to 60 psia 0 psia to 100 psia 0 psia to 150 psia 0 psia to 200 psia 0 psia to 300 psia	15A 30A 60A 100A 150A 200A 300A
	psig = Gauge Pressure		psia = Absolute Pressure		Other ranges available on special request					
ACCURACY	1 ±0.5 % Full Scale (Best Fit Straight Line)			2 ±0.25 % Full Scale (Best Fit Straight Line)						
OUTPUT SIGNALS	2 0 Vdc to 5 Vdc, 3-wire		3 1 Vdc to 5 Vdc, 3-wire		4 1 Vdc to 6 Vdc, 3-wire		5 0 Vdc to 10 Vdc, 3-wire		6 1 Vdc to 11 Vdc, 3-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		10 1/4" BSP male							
ELECTRICAL CONNECTIONS	1 36" cable (connected to option 7)		2 4-pin bendix		3 6-pin bendix		36 Integral cable 36"			
	6 1/2" NPT conduit (with 36" cable)		7 Mini-Hirschmann (DIN EN 175301-803 Form C)		25 M12 x 1 4-pin					
	NOTE: 0 Vdc to 5 Vdc and 0 Vdc to 10 Vdc outputs are also available in 4-wire configurations for use with other electrical systems.									
OPTIONS	ORF Threaded Orifice									

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

EXAMPLE

Series200
 Pressure Range0 psig to 500 psig
 Accuracy±0.50 % Full Scale
 Output Signal0 Vdc to 5 Vdc
 Process Connection1/4" NPT Male
 Electrical ConnectionMini-Hirschmann
 OptionOrifice

200 - 500 - 1 - 2 - 2 - 7 - ORF

Outline Dimensions



WIRING

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

*Note: mate supplied separately or customer supplied