## Pressure Heavy Duty OEM Pressure Transducers





## **FEATURES**

- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- Excellent overpressure protection
- High accuracy & long term stability
- Ranges from 15 psig to 15000 psig
- Standard 1/4" NPT male process connection
- Corrosion resistant stainless steel construction
- CE compliant
- Current & voltage output signals
- Hirschmann or cable electrical connections
- Compatible with NOSHOK 1800, 1900 and 2000 Series Indicators



- Hydraulic and pneumatic systems
- Industrial machinery and machine tools
- Injection molding machines
- Stamping and forming presses
- Pumps and compressors
- Laboratory and test equipment
- Railroad equipment
- HVAC systems
- Medical
- Refrigeration equipment
  - Marine
  - Power generation
  - Construction
  - Petrochemical
  - Water management





SERIES 600

## **HEAVY DUTY OEM PRESSURE TRANSDUCERS**

NOSHOK Series 600 Pressure Transducers combine high accuracy heavy duty thin film and piezoresistive sensor technology with automated production techniques to offer a durable, affordable OEM pressure transducer.

The high overpressure capability of these transducers and all stainless steel construction ensure their long term reliability in a broad range of applications. Reliability is also enhanced by the high levels of RFI, EMI and ESD protection built into series 600 pressure transducers.

Available in a variety of electrical and process configurations and fully compatible with the 1800, 1900 and 2000 Series Smart Systems Digital Indicators, Series 600 pressure transducers are the ideal choices for heavy duty, high volume applications.

A final electrical output and calibration inspection is performed on all NOSHOK transducers prior to shipment to ensure 100% "out of the box" reliability.

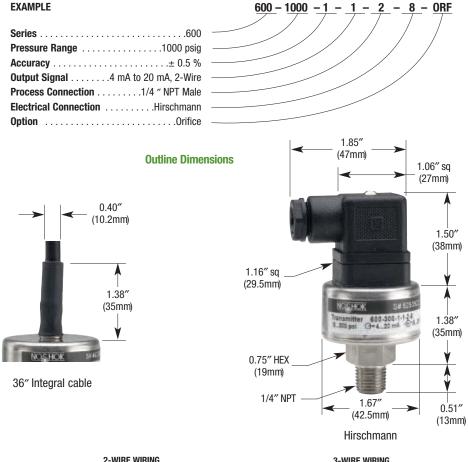
	SPECIFICATIONS				
Output signals	4 mA to 20 mA, 2-wire, 1 Vdc to 5 Vdc, 3-wire; 1 Vdc to 6 Vdc, 3-wire: 0 Vdc to 10 Vdc, 3-wire				
Pressure ranges	Standard gauge ranges from vacuum to 15000 psig; Standard absolute ranges from 15 psia to 150 psia				
Proof pressure	3 times Full Scale for ranges 0 psi to 15 psi through 0 psi to 200 psi 1.75 times Full Scale for ranges 0 psi to 300 psi through 0psi to 10000 ps 1.5 times Full Scale for 0 psi to 15000 psi range				
Burst pressure	4 times Full Scale for ranges 0 psi to 15 psi through 0 psi to 200 psi 2.6 times Full Scale for ranges 0 psi to 300 psi through 0 psi to 10000 ps 3 times Full Scale for 0 psi to 15000 psi range				
Accuracy	$\pm$ 0.5 % Full Scale (Best fit straight line) (Includes the combined effect linearity, hysteresis and repeatability)				
Repeatability	$\leq$ ± 0.2 % Full Scale				
Hysteresis	$\leq$ ± 0.1 % Full Scale				
Stability	$\leq \pm$ 0.5 % Full Scale for 1 year, non accumulating				
Power supply	10 Vdc to 30 Vdc, unregulated 14 Vdc to 30 Vdc for 0 Vdc to 10 Vdc output, unregulated				
Load limitations	$\leq$ (VPower–10)/0.020 Amp for 4 mA to 20 mA $\geq$ 10,000 Ω for 0 Vdc to 10 Vdc, 3-wire $\geq$ 5,000 Ω for 1 Vdc to 5 Vdc, 3-wire				
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 materials	316 stainless steel				
Temperature ranges	Compensated 32 °F to 175 °F/0 °C to 80 °C Effect ± 0.02 %/°F for zero and span Storage - 40 °F to 212 ° F/-40 °C to 100 °C Medium - 22 °F to 212 °F/-30 °C to 100 °C Ambient - 22 °F to 175 °F/-30 °C to 80 °C				
Response time	$\leq$ 5 ms (between 10 % to 90 % Full Scale)				
Pressure cycle limit	150 Hz				
Durability	> 100,000,000 full scale cycles				
Environmental protection	NEMA 4X, IP65 (IEC 529)				
Electromagnetic rating	CE compliant to EMC norm EN61326: 1997/A1: 1998 RFI, EMI and ESD protection				
Electrical protection	Reverse polarity, overvoltage and short circuit protection				
Shock	Less than $\pm$ 0.05 % Full Scale effect for 600 g's @ 20 ms on any axis				
Vibration	Less than $\pm$ 0.01 % Full Scale effect for 15 g's @ 15 Hz to 2000 Hz on any axis				
Weight	Approximately 3.5 oz.				



## WIRING DIAGRAMS ELECTRICAL CONNECTIONS

ORDERING INFORMATION										
SERIES 600										
PRESSURE RANGES	-30 inHg to 0 psig 0 psig to 15 psig 0 psig to 30 psig 0 psig to 60 psig 0 psig to 60 psig 0 psig to 100 psig psig = Gauge Press	30V 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 a= Absolute Pressure	150 200 300 500 600 Other	0 psig to 750 psig 0 psig to 1000 psig 0 psig to 1500 psig 0 psig to 2000 psig 0 psig to 3000 psig ranges available on spec	750 1000 1500 2000 3000	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	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	15A 30A 60A 100A 150A
ACCURACY 1 ± 0.5 % Full Scale (Best fit straight line)										
OUTPUT SIGNALS 1 4 mA to 20 mA, 2-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			
PROCESS CONNECTIONS 1 1/8 " NPT male*			2 1/4 " NPT male		*Not available on pressure ranges less than 60 psi					
ELECTRICAL CONNECTIONS 1 36 " cable (connected to option 8) 8 Hirschmann (DIN EN 175301-803 Form A)   14 Hirschmann type with 1/2 " NPT female conduit connection 36 36 " Integral Cable										
OPTIONS ORF SS Threaded Orifice										

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



	2-WIRE WIRING		3-WIRE WIRING				
Wiring	Cable	Hirschmann	Wiring	Cable	Hirschmann		
+ Supply	Brown (or Red)	1	+ Supply	Brown (or Red)	1		
+ Output	Green (or Black)	2	Common	Green (or Black)	2		
		-	+ Output	White	3		