



FEATURES

- Ranges from 0 psig to 15 psig to 0 psig to 10,000 psig
- Standard absolute ranges from 15 psia to 200 psia
- RoHS compliant
- Constructed of high quality stainless steel
- Excellent EMC-protection compliant with EN 61326
- Compact size
- All welded design with no internal seals
- Highly resistant to shock and vibration
- Excellent for use in dynamic or static measurement

APPLICATIONS

- Hydraulic and pneumatic systems
- Pumps and compressors
- Stamping and forming presses
- Test equipment and systems
- Industrial machinery and machine tools

300 SERIES

- Rugged, compact transducer at an affordable price
- Ideal for dynamic or static measurement in general industrial applications where space is limited and durability is essential
- Ranges from 0 psi to 15 psi through 0 psi to 10,000 psi
- Standard absolute ranges from 15 psia to 200 psia
- High quality stainless steel construction for compatibility with chemically aggressive media
- All welded design with no internal seals increases resistance to mechanical stress, shock and vibration
- Wide variety of electrical & mechanical connections and outputs available
- Excellent EMC-protection compliant with EN 61326 – ideal for areas where RFI, EMI, or ESD signals are present
- RoHS compliant

SPECIFICATIONS

Output signals	4 mA to 20 mA, 2-wire; 0 Vdc to 5 Vdc, 3-wire; 1 Vdc to 5 Vdc, 3-wire; 0 Vdc to 10 Vdc, 3-wire; 0.5 Vdc to 4.5 Vdc ratiometric, 3-wire
Pressure ranges	Standard gauge ranges from 0 psig to 15 psig; through psig to 10,000 psig Standard absolute ranges 15 psia through 300 psia
Proof pressure	2 times full scale
Burst pressure	6 times full scale
Accuracy	±0.5% full scale (BFSL); optional ±0.25% full scale (BFSL); (includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Repeatability	≤ ±0.05% full scale
Hysteresis	≤ ±0.1% full scale
Stability	≤ ±0.2% full scale per year, non-accumulating
Response time	≤ 4 ms (between 10% and 90% full scale)
Power supply*	8 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire) 8 Vdc to 30 Vdc (0 Vdc to 5 Vdc, 3-wire) 8 Vdc to 30 Vdc (1 Vdc to 5 Vdc, 3-wire) 8 Vdc to 30 Vdc (0.5 Vdc to 4.5 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire) 5 Vdc ± 10% (0.5 Vdc to 4.5 Vdc ratiometric, 3-wire)
Load limitations	≤ (VPower - 10)/0.020 Amp for 4 mA to 20 mA output ≤ 5,000 Ω for 1 Vdc to 5 Vdc output ≤ 10,000 Ω for 0 Vdc to 10 Vdc output ≤ 4,500 Ω for 0.5 Vdc to 4.5 Vdc output
Wetted materials	316 stainless steel for absolute through 150 psi 13-8PH stainless steel sensing diaphragm and 316 stainless steel process connection for higher ranges
Housing material	316 stainless steel
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) Storage -4 °F to 176 °F (0 °C to 80 °C) Media 32 °F to 176 °F (0 °C to 80 °C) Ambient 32 °F to 176 °F (0 °C to 80 °C)
Environmental rating	IP65 to IP67 depending on electrical connection
Electromagnetic rating	2004/108/EEC, EN 61326 Emission (Group 1, Class B) and Immunity (industrial locations)
Electrical protection	Reverse polarity, over-voltage and short circuit protection
Shock	500 g's per IEC 68-2-27
Vibration	10 g's per IEC 68-2-6
Weight	Approximately 2.8 oz.

* Unregulated power supplies

ORDERING INFORMATION				
SERIES	300			
PRESSURE RANGES	15	0 psig to 15 psig	300	0 psig to 300 psig
	30	0 psig to 30 psig	500	0 psig to 500 psig
	60	0 psig to 60 psig	750	0 psig to 750 psig
	100	0 psig to 100 psig	1000	0 psig to 1,000 psig
	150	0 psig to 150 psig	1500	0 psig to 1,500 psig
	200	0 psig to 200 psig	2000	0 psig to 2,000 psig
			3000	0 psig to 3,000 psig
			5000	0 psig to 5,000 psig
			6000	0 psig to 6,000 psig
			7500	0 psig to 7,500 psig
			10000	0 psig to 10,000 psig
			15A	0 psia to 15 psia
			30A	0 psia to 30 psia
			60A	0 psia to 60 psia
			100A	0 psia to 100 psia
			150A	0 psia to 150 psia
			200A	0 psia to 200 psia
			300A	0 psia to 300 psia
psig = gauge pressure psia = absolute pressure Other ranges available upon request.				
ACCURACIES	1	±0.5% full scale (BFSL)	2	±0.25% full scale (BFSL)
OUTPUT SIGNALS	1	4 mA to 20 mA, 2-wire	3	1 Vdc to 5 Vdc, 3-wire
	2	0 Vdc to 5 Vdc, 3-wire	5	0 Vdc to 10 Vdc, 3-wire
PROCESS CONNECTIONS	2	1/4" NPT Male	10	G 1/4 B
	8	1/2" NPT Male	11	G 1/2 B
ELECTRICAL CONNECTIONS	8	Hirschmann (DIN EN 175301-803 form A)	25	M12 x 1 (4-pin)
	14	Hirschmann type with 1/2" NPT Female conduit	36	6' Integral cable
	7	Mini-Hirschmann (DIN EN 175301-803 form C)		
OPTION	ORF	Threaded Orifice (0.3 mm)		

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

EXAMPLE

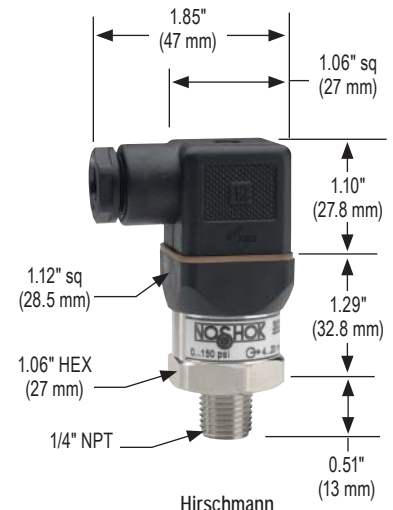
Series300
Pressure range0 psig to 500 psig
Accuracy±0.50% full scale
Output signal0 Vdc to 5 Vdc
Process connection1/4" NPT Male
Electrical connectionMini-Hirschmann
OptionThreaded orifice

300 - 500 - 1 - 2 - 2 - 7 - ORF

Outline Dimensions



* Note: (mate supplied separately or customer supplied)



2-WIRE WIRING

Wiring	M12	Hirschmann	Cable
+ Supply	1	1	Brown
+ Output	3	2	Blue

3-WIRE WIRING

Wiring	M12	Hirschmann	Cable
+ Supply	1	1	Brown
Common	3	2	Blue
+ Output	4	3	White