

## 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

### 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

### SPECIFICATIONS

<b>Output signals</b>	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
<b>Pressure ranges</b>	Standard gauge ranges from 0 psig to 15 psig; through psig to 10,000 psig Standard absolute ranges 15 psia through 300 psig
<b>Proof pressure</b>	2 times full scale
<b>Burst pressure</b>	6 times full scale
<b>Accuracy</b>	±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)
<b>Repeatability</b>	≤ ±0.05% full scale
<b>Hysteresis</b>	≤ ±0.1% full scale
<b>Stability</b>	≤ ±0.2% full scale per year, non-accumulating
<b>Response time</b>	≤ 4 ms (between 10% and 90% full scale)
<b>Power supply*</b>	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 ± 10% (0.5 Vdc to 4.5 Vdc ratiometric, 3-wire)
<b>Load limitations</b>	≤ (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
<b>Wetted materials</b>	316 stainless steel for absolute through 150 psi 13-8PH stainless steel sensing diaphragm and 316 stainless steel process connection for higher ranges
<b>Housing material</b>	316 stainless steel
<b>Pressure cycle limit</b>	150 Hz
<b>Durability</b>	> 100,000,000 full scale cycles
<b>Temperature ranges</b>	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)
<b>Environmental rating</b>	IP65 to IP67 depending on electrical connection
<b>Electromagnetic rating</b>	CE compliant to EMC norm EN61326: 1997/A1: 1998 RFI, EMI and ESD protection
<b>Electrical protection</b>	Reverse polarity, over-voltage and short circuit protection
<b>Shock</b>	500 g's per IEC 68-2-27
<b>Vibration</b>	10 g's per IEC 68-2-6
<b>Weight</b>	Approximately 2.8 oz.

\* Unregulated power supplies

ORDERING INFORMATION								
<b>SERIES</b>	<b>300</b>							
<b>PRESSURE RANGES</b>	<b>15</b>	0 psig to 15 psig	<b>300</b>	0 psig to 300 psig	<b>3000</b>	0 psig to 3,000 psig	<b>60A</b>	0 psia to 60 psia
	<b>30</b>	0 psig to 30 psig	<b>500</b>	0 psig to 500 psig	<b>6500</b>	0 psig to 6,500 psig	<b>100A</b>	0 psia to 100 psia
	<b>60</b>	0 psig to 60 psig	<b>750</b>	0 psig to 750 psig	<b>7500</b>	0 psig to 7,500 psig	<b>150A</b>	0 psia to 150 psia
	<b>100</b>	0 psig to 100 psig	<b>1000</b>	0 psig to 1,000 psig	<b>10000</b>	0 psig to 10,000 psig	<b>200A</b>	0 psia to 200 psia
	<b>150</b>	0 psig to 150 psig	<b>1500</b>	0 psig to 1,500 psig	<b>15A</b>	0 psia to 15 psia	<b>300A</b>	0 psia to 300 psia
	<b>200</b>	0 psig to 200 psig	<b>2000</b>	0 psig to 2,000 psig	<b>30A</b>	0 psia to 30 psia		
	psig = gauge pressure    psia = absolute pressure    Other ranges available upon request.							
<b>ACCURACY</b>	<b>1</b>	±0.5% full scale (BFSL)	<b>2</b>	±0.25% full scale (BFSL)				
<b>OUTPUT SIGNALS</b>	<b>1</b>	4 mA to 20 mA, 2-wire	<b>3</b>	1 Vdc to 5 Vdc, 3-wire		<b>13</b>	0.5 Vdc to 4.5 Vdc, 3-wire (ratiometric)	
	<b>2</b>	0 Vdc to 5 Vdc, 3-wire	<b>5</b>	0 Vdc to 10 Vdc, 3-wire				
<b>PROCESS CONNECTIONS</b>	<b>2</b>	1/4" NPT Male	<b>10</b>	G 1/4 B		<b>45</b>	SAE J1926-3:7/16-20	
	<b>8</b>	1/2" NPT Male	<b>11</b>	G 1/2 B				
<b>ELECTRICAL CONNECTIONS</b>	<b>1</b>	36" cable (connected to option 8)			<b>8</b>	Hirschmann (DIN EN 175301-803 form A)		
	<b>7</b>	Mini-Hirschmann (DIN EN 175301-803 form C)			<b>25</b>	M12 x 1 (4-pin)		<b>36</b>
<b>OPTION</b>	<b>ORF</b>	Threaded orifice (.3 mm)						

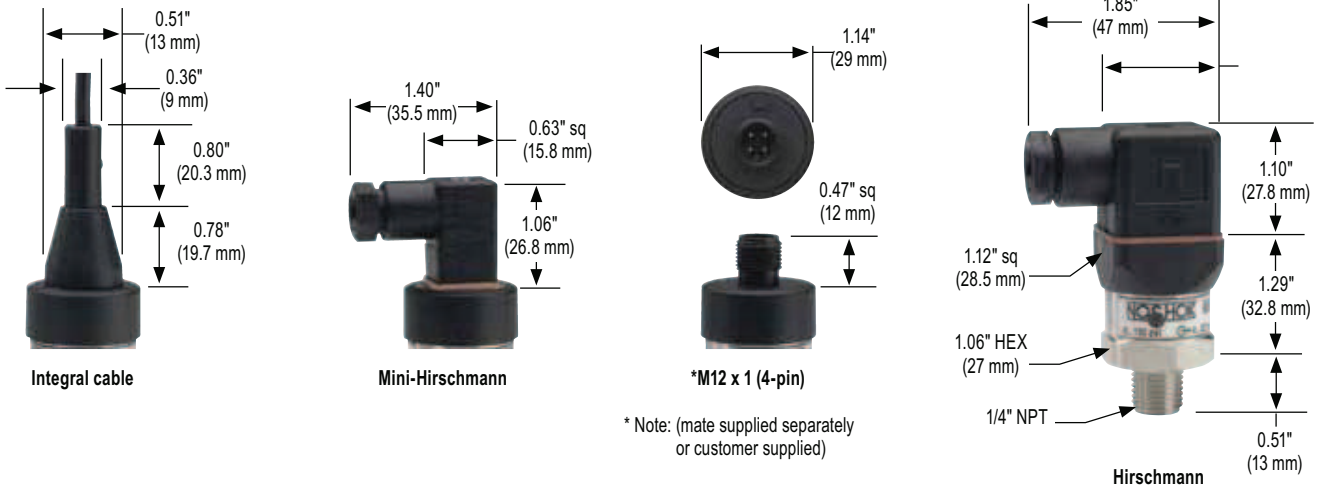
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

### EXAMPLE

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

Series .....	300
Pressure range .....	0 psig to 500 psig
Accuracy .....	±0.50% full scale
Output signal .....	0 Vdc to 5 Vdc
Process connection .....	1/4" NPT Male
Electrical connection .....	Mini-Hirschmann
Option .....	Threaded orifice

### Outline Dimensions



### 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