

Industrial Pressure Transmitters & Transducers

Current Output



100 SERIES

- Vacuum and compound ranges through 0 psig to 15,000 psig
- Current output
- 316 and 17-4PH Stainless Steel wetted parts
- CE compliant to suppress RFI, EMI and ESD

APPLICATIONS

- HVAC
- Hydraulics & pneumatics
- Injection molding machines
- Railroad equipment
- Stamping & forming presses

SPECIFICATIONS

Output signal	4 mA to 20 mA, 2-wire
Pressure ranges	Vacuum through 0 psig to 15,000 psig Absolute from 0 psia to 15 psia through 0 psia to 300 psia
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)
Stability	≤ ±0.2% full scale for 1 year, non-accumulating
Adjustment	≤ ±10% full scale for zero and span
Response time	≤ 1 ms (between 10% and 90% full scale)
Service life	> 100,000,000 load cycles
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Effect ±0.017% full scale/ °F for zero and span Media -22 °F to 212 °F (-30 °C to 100 °C) Ambient -40 °F to 185 °F (-40 °C to 85 °C) Storage -40 °F to 212 °F (-40 °C to 100 °C)
Power requirement*	10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire)
Load limitations	≤ (Vpower supply -10)/.020 Amp
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 10,000 psi 1.5 times full scale for 0 to 15,000 psi
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 10,000 psi 3 times full scale for 0 psi to 15,000 psi
Measuring element	316 Stainless Steel for vacuum through 300 psi; 17-4PH Stainless Steel for ≥500 psi
Connection	316 Stainless Steel
Housing material	316 Stainless Steel
Environmental rating	IP65
Electromagnetic rating	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection
Electrical protection	Reverse polarity, over-voltage and short circuit protection
Shock	1000 g's according to IEC 60068-2-27
Vibration	20 g's according to IEC 60068-2-6
Weight	Approximately 3.5 oz.

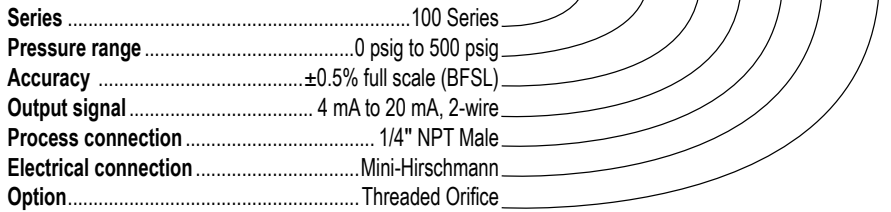
* Unregulated

100 SERIES ORDERING INFORMATION DIMENSIONS

ORDERING INFORMATION						
SERIES	100					
PRESSURE RANGES	30vac -30 inHg to 0 psig	5 0 psig to 5 psig	200 0 psig to 200 psig	3000 0 psig to 3,000 psig	15A 0 psia to 15 psia	
	30/15 -30 inHg to 15 psig	10 0 psig to 10 psig	300 0 psig to 300 psig	4000 0 psig to 4,000 psig	30A 0 psia to 30 psia	
	30/30 -30 inHg to 30 psig	15 0 psig to 15 psig	500 0 psig to 500 psig	5000 0 psig to 5,000 psig	60A 0 psia to 60 psia	
	30/45 -30 inHg to 45 psig	25 0 psig to 25 psig	600 0 psig to 600 psig	6000 0 psig to 6,000 psig	100A 0 psia to 100 psia	
	30/100 -30 inHg to 100 psig	30 0 psig to 30 psig	750 0 psig to 750 psig	7500 0 psig to 7,500 psig	150A 0 psia to 150 psia	
	30/150 -30 inHg to 150 psig	60 0 psig to 60 psig	1000 0 psig to 1,000 psig	10000 0 psig to 10,000 psig	200A 0 psia to 200 psia	
	30/200 -30 inHg to 200 psig	100 0 psig to 100 psig	1500 0 psig to 1,500 psig	15000 0 psig to 15,000 psig	300A 0 psia to 300 psia	
	30/300 -30 inHg to 300 psig	150 0 psig to 150 psig	2000 0 psig to 2,000 psig			
		psig = gauge pressure	psia = absolute pressure	Other ranges available on request		
ACCURACIES	1 ±0.5% full scale (BFSL)					2 ±0.25% full scale (BFSL)
OUTPUT SIGNAL	1 4 mA to 20 mA, 2-wire					
PROCESS CONNECTIONS	1 1/8" NPT male	3 SAE J1926-3:7/16-20 Adjustable			9 SAE J1926-1:7/16-20	
	2 1/4" NPT male	4 1/8" NPT female			10 G1/4 male	
ELECTRICAL CONNECTIONS	1 36" cable (connected to option 7)	6 1/2" NPT conduit (with 36" cable)			25 M12 x 1 (4-pin)	
	2 4-pin Bendix	7 Mini-Hirschmann (DIN EN 175301-803 Form C)			36 Integral cable 36"	
	3 6-pin Bendix					
OPTION	ST8 Threaded Orifice					

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

EXAMPLE



Load Limitations 4 mA to 20 mA output	
V _{min}	= 10V + (.020 x RL)
RL	= Loop resistance (Ω) RL = RS + RW
RS	= Sensor resistance (Ω)
RW	= Wire resistance (Ω)



WIRING				
Wire	Bendix 4-pin or 6-pin	Mini-Hirschmann	Cable	M12 x 1
+ Supply	pin A	pin 1	Red	pin 1
+ Output	pin B	pin 2	Black	pin 3

* Note: Mate supplied separately or customer supplied.