rate, shock resistant and extremely stable over a long period of time. EMC, electromagnetic compatibility, to IEC 1000 has been engineered in as a standard feature along with reverse polarity, overvoltage, and short circuit protection.

The 100 series current output pressure transmitters were designed to provide a previously unequalled level of performance, utilizing Piezo Resistive or Thin film sensor technology dependent on pressure range. 100 Series Transducers are highly accu-

Series 100 Pressure Transmitter

Two-wire, 4-20mA, Vacuum To 15,000 PSIG & PSIA

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.

A final electrical output and calibration inspection is performed on all NOSHOK Transducers and Transmitters after final assembly and prior to shipment to insure 100% "out of the box" reliability.

SPECIFICATIONS

NOSHOK

DESCRIPTION

OUTPUT SIGNAL: 4-20 mA, 2 wire

PRESSURE RANGES: Vacuum and compound through 0 - 15000 PSI; gauge and absolute

PROOF PRESSURE: 0-5, 0-10, 0-7500 through 0-15000 PSI: 1.5 times range; 0-15 PSI through 0-6000 PSI: 5 times range BURST PRESSURE: 0-5, 0-10, 0-7500 through 0-15000 PSI: 2 times range; 0-15 PSI through 0-6000 PSI: 5 times range ACCURACY: (BSFL or RSS) (includes repeatability, hysterisis and linearity) 0.5% full scale standard 0.25% full scale optional WETTED MATERIALS: 316 stainless steel for vacuum through 300 psi; 17-4PH DIMENSIONS(MM)

stainless steel sensing diaphragm and 316 stainless steel process connection for higher ranges

HOUSING MATERIAL: 316 Stainless Steell **REPEATABILITY: 0.05% full scale** HYSTERISIS: 0.1% full scale STABILITY: 0.2% full scale per year INPUT EXCITATION: 12-30 VDC unregulated TEMPERATURE RANGES COMPENSATED: 32 to 175 °F (0 to 80 °C) EFFECT: 0.02%/°F STORAGE: -40 to 212 °F (-40 to 100 °C) MEDIUM: -22 to 212 °F (-30 to 100 °C) AMBIENT: -40 to 185 °F (-40 to 85 °C) RESPONSE TIME: Less than 1 ms (between 10-90% full scale) PRESSURE CYCLE LIMIT: 150Hz **OPERATING LIFE: 100 million cycles** ADJUSTMENT: 10% full scale of zero and span ENVIRONMENTAL PROTECTION: NEMA 4x, DIN IP65 (IEC 529) ELECTROMAGNETIC CAPABILITY: per IEC 1000 4-2 - ESD Level 2

4-3 - Fields (RFI) Level 2, 4-4 - Burst Level 3, 4-5 - Surge Level 2 ELECTRICAL PROTECTION: Reverse polarity, overvoltage and short circuit protection SHOCK: Less than 0.05% full scale effect or 1000g's @ 20 ms on any axis VIBRATION Less than 0.05% full scale effect for 30g's @ 5-2000 Hz on any axis

100-A-B-1-C-D **TO ORDER:**

Example: 100-10-1-1-3-7

A=Range

0-30" HgVA	C 30V	30/200PSIG	30/20	0-60PSIG	60	0-600PSIG	600	0-5000PSIG	5000	0-15PSIA	15A
30"/15PSIG	30/153	30"/300PSIG	30/300	0-100PSIG	100	0-750PSIG	750	0-6000PSIG	6000	0-30PSIA	30A
30"/30PSIG	30/30	0-5PSIG	5	0-150PSIG	150	0-1000PSIG	1000	0-7500PSIG	7500	0-60PSIA	60A
30"/60PSIG	30/60	0-10PSIG	10	0-200PSIG	200	0-1500PSIG	1500	0-10000PSIG	10000	0-100PSIA	100A
30"/100PSIG	30/100	0-15PSIG	15	0-300PSIG	300	0-2000PSIG	2000	0-15000PSIG	15000	0-150PSIA	150A
30"/150PSIG	30/150	0-30PSIG	30	0-500PSIG	500	0-3000PSIG	3000			0-200PSIA	200A
										0-300PSIA	300A

B=Accuracy

1 ±0.5% **2** ±0.25%

C=Process Conection 2 1/4" NPT Male 3 7/16"-20 UNF OTHER CONNECTIONS ON REQUEST

D=Electrical Connection

1 36" Cable(connected to option 7)

- 2 4 Pin Bendix
- **3** 6 Pin Bendix

13

23

WIRING

- 27

64

Red

(Pow

Supply

Green

Output

6 1/2" NPT Conduit (w/36" cable) 7 Mini-Hirschmann (w/mating connector)

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