



Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

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GENERAL PURPOSE / OEM PRESSURE TRANSDUCER

Models 1002, 1003



APPLICATIONS:

- Automotive
- Industrial OEM
- Hydraulic Systems
- Compressor Controls
- Pneumatic Controls
- Pump Controls

FEATURES:

- Low Cost, High Reliability
- 0.5% FSO standard accuracy, 0.25% FSO optional.
- Small size - lightweight
- Rugged, all welded construction
- NEMA - 4X/IP65 rated

PRESSURE RANGES:

- From 0-5 to 0-10,00 PSI

Accuracy:

- (Includes Hysteresis, Non-linearity, Non-Repeatability)
- 0.5% (BFSL)

Resolution: Infinite (Practical = 0.06% FSO)

Temperature Limits:

- Compensated: 0° F to 180° F
- Operating: -40° F to 180° F
- Storage: -40° F to 250° F

Temperature Compensation:

- Zero & Span: $\pm 2.0\%$ FSO/100°F

Electricals:

- Approvals: CE EN 50 081-1
- Excitation: 9-36 Vdc
- Zero Balance: $\pm 2\%$ FSO
- Span Tolerance: $\pm 2\%$ FSO
- Insulation: 10 M Ohms at 50 VDC Pin to Case
- Current Draw (**1002**): 3.5 mA Nominal 6mA max

Mechanicals:

- Response Time: 5 ms
- Proof Pressure: 1.5 X Pressure range
- Burst Pressure: 3 X Pressure range or 17,500 psig
- Pressure cavity material: 316 SST and 17-4 SST

Connections:

- Pressure: 1/4 NPT male (see options)
- Electrical: 36" cable

Enclosure:

- Materials: 316 SST and nylon
- Rating: NEMA - 4X, IP65

Resistance to shock:

- According to IEC 68-2-32: 1m (Free-fall onto steel plate)

Vibration Resistance:

- According to IEC 68-2-6 & 68-2-36: 20g

WIRING:

RED
GREEN
BLACK
SHIELD

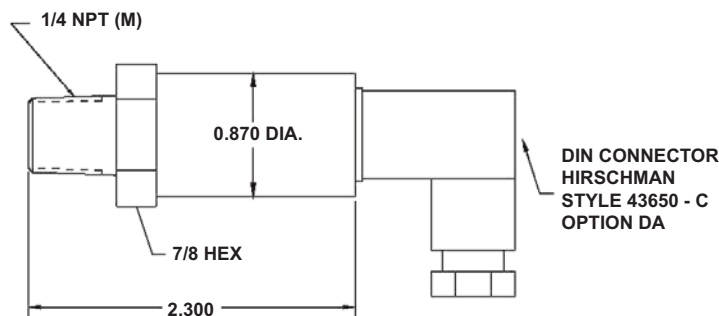
1002

+EXC.
+SIGNAL
-EXC.
OPEN

1003

+EXC./SIGNAL
NC
-EXC./SIGNAL
OPEN

Some options will affect dimensions. Consult factory if important.



Units are in inches

A5SL-1000.00 Rev E



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Typical configurations (consult factory for more options)

MODELS

1002 0-5 Vdc - .5 - 4.5 available

1003 4-20 mA

ACCURACY (STATIC)

B 0.5% FSO

C 0.2% FSO

PRESSURE RANGE (PSI)

PP 0-15

PT 0-30

PV 0-50

PX 0-75

PZ 0-100

RB 0-150

RD 0-200

RE 0-250

RF 0-300

RH 0-500

RK 0-750

RM 0-1000

RO 0-1500

RR 0-2000

RS 0-2500

RT 0-3000

RV 0-5000

RX 0-7500

RZ 0-10,000

OPTIONS

ALTERNATE CONNECTOR OR CABLE

AA 36" wire leads

CF 1/2" NPT Male Nylon Conduit with 36" Cable

DA DIN 43650-C Connector with Mate

DC Turck M12

ALTERNATE PRESSURE PORT

AA 1/4 NPT Male - Standard

FL 1/8 NPT Male

FO G 1/4 (1/4 BSSP)

LT SAE - 4 Male

*Consult factory for other options

PRESSURE TYPES

2 Gauge

4 Vacuum

3 Absolute

7 Sealed Gauge

10 Compound

NOTE:

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.