

Series GT180

Industrial Pressure Transducers



Description

The Series GT180 pressure transducers are millivolt/volt output units designed to provide reliable and economical pressure sensor solutions for test and measurement applications. The GT180 pressure transducers are 0.25% accuracy units with standard pressure ranges from 15 psi to 40,000 psi in gage, absolute, and vacuum references. All GT180 pressure transducers are shock and vibration resistant. A comprehensive selection of pressure ports and electrical terminations are available. Each unit is shipped with a standard 15 point calibration record traceable to NIST.

Standard Features

- $\pm 0.25\%$ Accuracy
- 3 mV/V Output
- Stainless Steel Construction
- Ranges to 40K
- Gage, Absolute, Vacuum Ranges
- 15 Point Calibration Record

Optional Features

- Alternate Materials of Construction
- Customer Specified Pressure Ports
- Customer Specified Electrical Connectors
- Expanded Temperature Compensation
- Shunt Calibration

GT180

Series GT180 Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below
Custom Designs Available

Performance

Static Accuracy

$\pm 0.25\%$ FSO by BFSL.

Resolution

Infinite.

Thermal Error

$< \pm 0.020\%$ FSO/ $^{\circ}$ F (typical).

Zero Balance

$\pm 2\%$ FSO at 70 $^{\circ}$ F.

Full Scale Output

3.0 ± 0.015 mV/V at 70 $^{\circ}$ F.

Frequency Response

Consult Factory.

Mechanical Characteristics

Standard Ranges

0-50, 100, 200, 500, 750, 1000, 3000,
5000, 7500, 10000, 15000, 20000,
25000, 30000, 40000 PSIA / PSIG.

Proof Pressure

1.5 X range.

Burst Pressure

2.0 X range.

Operating Media

Fluids and gases compatible with
316 or 17-4 stainless steel.
Inconel and other materials optional.

Enclosure

Body of stainless steel.

Pressure Fitting

(For ranges 50 psi thru 10,000 psi).

1/4" NPT Male (Standard)

1/4" NPT Female (No charge option).

(For ranges 15,000 psi thru 40,000 psi)

AE F250-C, 9/16"-18 UNF, or equivalent
(Standard).

For additional pressure fittings please
consult factory.

Weight

Approximately 5 oz.

Electrical Characteristics

Excitation

10 Vdc recommended, 15 Vdc maximum.

Input/Output Resistance

350 ± 20 ohms at 70 $^{\circ}$ F.

Insulation Resistance

Greater than 10K megaohms at 50 Vdc
at 70 $^{\circ}$ F.

Electrical Connection

3 ft. of PVC cable with shield and drain wire.
Optional electrical terminations available.

Environmental Characteristics

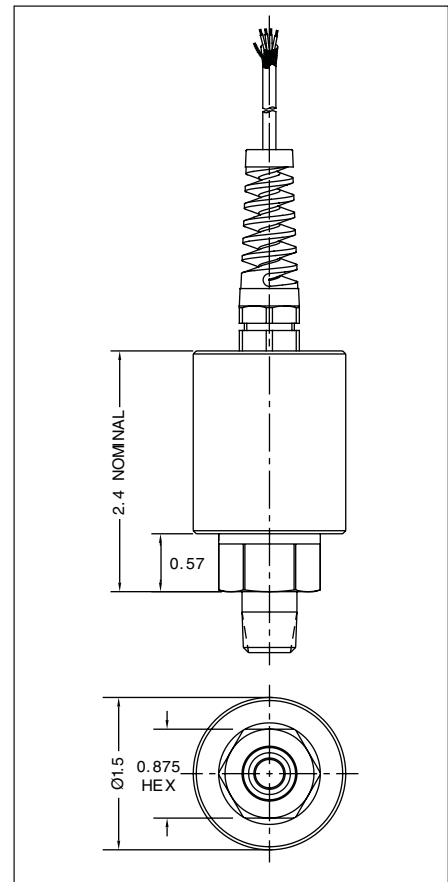
Compensated Temperature Range

+30 $^{\circ}$ F to +130 $^{\circ}$ F.
Options available.

Operating Temperature Range

-65 $^{\circ}$ F to +250 $^{\circ}$ F.

Dimensions (inches)



CE
0539

MODIFICATIONS: We realize transducer applications vary greatly and as such our designs are flexible. Choice of pressure port, electrical termination, material compatibility and performance characteristics are a few of the many options available. Specifications on this datasheet represent the standard configuration only. Product and company names listed are trademarks of their respective companies. Specifications subject to change without notice.

WARRANTY: Stellar Technology warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Stellar Technology's obligation hereunder shall be limited to correcting any defective material FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by Stellar Technology. This warranty is in lieu of all other warranties expressed or implied.

Find More Information at:
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Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.

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