

Series GT100

Pressure Transducers

GT100



Description

The Series GT100 is a reliable rugged pressure transducer, with a high frequency response, for measuring dynamic and static pressures. The major design feature is a fully cleanable pressure cavity with replaceable stainless steel diaphragms. Other features of design include long term stability, low sensitivity to shock, vibration and thermal shock, excellent response to transient pressures, infinite resolution and built in over-pressure protection.

Standard Features

- Replaceable stainless steel diaphragms
- Cleanable pressure cavities
- Stainless Steel construction
- Rugged, robust design
- NIST traceable
- Thermally isolated

Optional Features

- Improved thermal coefficients
- Expanded temperature range
- Alternative electrical terminations
- Alternative materials of construction
- Alternative pressure ports

Your “Application-SolutionSM” Source

Series GT100 Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below

Performance

Static Accuracy

± 0.25% FSO by BFSL.

Resolution

Infinite

Thermal Zero Shift

< ± 0.010% FSO/°F.
(< ± 0.005% optional)

Therm. Sens. Shift

< ± 0.005% FSO/°F.

Input / Output Resistance

350 ± 3.5 ohms at 70°F.

Insulation Resistance

> 10K megohms at 50 Vdc at 70°F.

Zero Balance

± 1% FSO at 70°F.

Full Scale Output

3.0 ± 0.015 mV/V FSO at 70°F.

Natural Frequency

3.0 kHz at 150 PSI to 150 kHz at
20,000 PSI.

Acceleration Response

< ± 0.01% FSO/G.

Mechanical Characteristics

Standard Ranges

0 - 150, 200, 300, 500, 750, 1000, 1500,
2000, 2500, 3000, 3500, 4000, 5000,
6000, 7500, 10000, 15000, 20000 PSIG.

Proof Pressure

150 - 750 PSI ranges: 3.0 times range.
1K - 2K PSI ranges: 2.5 times range.
2.5K - 3.5K PSI ranges: 2.0 times range.
4.0K PSI range and up: 1.5 times range.

Operating Media

Fluids and gases compatible with 316
and 347 stainless steel. Removable
pressure cap & replaceable isolation
diaphragms.

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. See accessory listing for additional choices.

Mechanical Characteristics

Pressure Fitting

7/16-20 per MS33649-4 for ranges up to
and including 10,000 PSI.
AE F250-C, 9/16-18 UNF for 15K and
20K PSI ranges.

Weight

55 ounces maximum.

Electrical Characteristics

Excitation

10 Vdc recommended, 15 Vdc max.

Electrical Termination

MS3102-14S-2P stainless steel connector
or equivalent.

Wiring

Excitation +A, -D; Signal +B, -C.

Environmental Characteristics

Compensated Temperature Range

-30°F to +170°F.
(-65°F to +250°F optional)

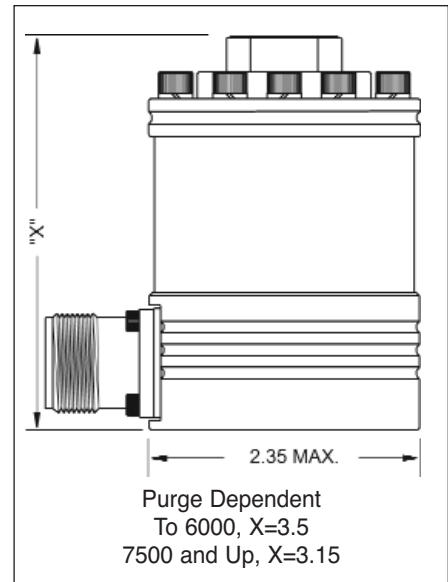
Operating Temperature Range

-100°F to +300°F.

Enclosure

Body and pressure cavity of
stainless steel, environmentally sealed.

Dimensions (inches)



Stellar Technology Incorporated is an
ISO 9001:2000
Registered Company

Represented By:



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.

Ordering Information

Contact the factory or your Authorized
Stellar Technology, Inc. Representative.

Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.



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