

Series GT600

Industrial Pressure Transducers

GT600



Description

Rugged, long-lived and reliable, Bonded Foil Strain Gage Technology is the basis of the GT600 pressure transducer. The unit, with its low sensitivity to shock and vibration, provides a high S.E.B. accuracy and reduces to a minimum temperature zero and span shifts through a broad operating temperature range.

The unit provides an excellent transient response and infinite resolution. Additionally, the GT600 offers many of the mechanical adaptations which compliment STI's "Application-Solutions" to meet the demands of today's marketplace.

The brief specifications listed on the back are but a few of the more important parameters of interest. Make sure to contact the sales office closest to you for further definition.

Standard Features

- Stainless Steel Construction
- Traceability to NIST
- $\pm 0.1\%$ FSO Accuracy
- Ranges to 30K
- Improved Temperature Performance

Optional Features

- Alternate Materials of Construction
- Customer Specified Pressure Ports
- Alternate Electrical Connectors
- Temperature Compensation from -320° F to $+400^{\circ}$ F
- Shunt Calibration

Your "Application-SolutionSM" Source

Series GT600 Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below

Performance

Static Accuracy

$\pm 0.10\%$ FSO.

Resolution

Infinite.

Thermal Zero Shift

$< \pm 0.005\%$ FSO/ $^{\circ}$ F.

Thermal Sensor Shift

$< \pm 0.005\%$ FSO/ $^{\circ}$ F.

Input/Output Resistance

350 ± 3.5 ohms at 70° F.

Insulation Resistance

> 10 K megaohms at 50 Vdc at 70° F.

Zero Balance

$\pm 1\%$ FSO at 70° F.

Full Scale Output

$3\text{mV/V} \pm 0.05\%$ FSO at 70° F.

Mechanical Characteristics

Standard Ranges

0 - 15, 25, 30, 50, 75, 100, 200, 500,
750, 1000, 500, 7500, 10000, 15000,
20000, 25000, and 30000 PSIA / PSIG.

Proof Pressure

15-200 PSI ranges: 500 PSI.
500 PSI range and up: 1.5 times range

Burst Pressure

3 times range or 1500 PSI, whichever
is greater.

Operating Media

Fluids and gases compatible with
316 and 347 or 17-4PH stainless steel.

Enclosure

Body and pressure cavity of stainless
steel, hermetically sealed.

Pressure Fitting

7/16-20 per MS33656-4 for ranges up to
and including 10,000 PSI.
AE F250-C, 9/16-18 UNF for ranges
15,000 PSI and up.

Weight

4.5 ounces maximum.

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.

Electrical Characteristics

Excitation

10 Vdc recommended, 15 Vdc maximum.

Electrical Termination

Stainless steel hermetic to mate with an
MS3116-10-6S or equal.

Environmental Characteristics

Compensated Temperature Range

-65° F to $+250^{\circ}$ F.

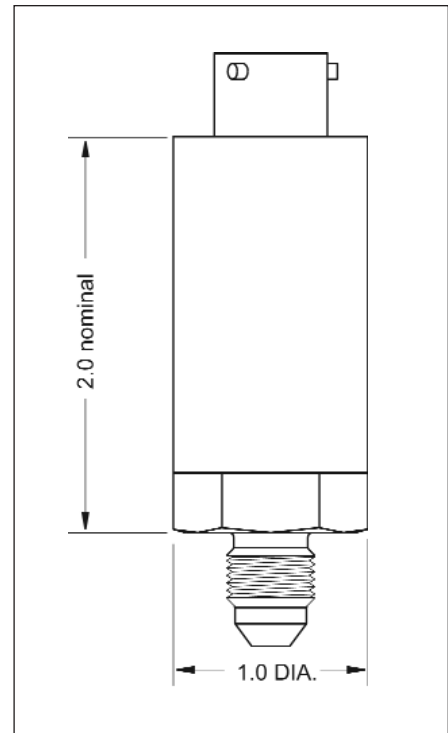
Operating Temperature Range

-100° F to $+300^{\circ}$ F.

Acceleration Response

Less than $\pm 0.15\%$ FS/G at 15 PSI to
 $\pm 0.0015\%$ FS/G at 30,000 PSI.

Dimensions (inches)



0539

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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