

Series GT2450

4-20 mA Hazardous Location Pressure Transmitter



Description

The GT2450 Series is an intrinsically safe electronics package, which can be integrally added to our standard 4-20mA devices. Represented as its own product series as the GT2450, it allows all of our standard mechanical configurations to be utilized. This not only allows us to maintain years of field-use data but to implement new configurations by developing "Application- Solutions" as you, our customers, demand.

Areas of applications where we can assist include, but are not limited to:

Gage/Absolute/Compound/Vacuum & Differential Configuration for:

- Submersible Applications
- Offshore Drilling/Production Applications
- Oilfield Drilling, Production, & MWD Applications
- Sanitary Applications
- Flush Mounting Applications
- OEM Customization
- Barometric Correction
- NACE Compatibility in Harsh Environments
- Plant Automation

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. In most cases, independent data sheets support these applications and provide additional information.

Standard Features

- Intrinsically Safe
- ATEX Certified EEx ia IIC T4
- Rugged Strain Gage Technology
- Reliable Long Term Stability
- Digital Electronics
- Resolution: .025% FSO
- Low Sensitivity to Shock & Vibration

Optional Features

- Customer Specified Electrical Connector
- Customer Specified Pressure Port
- Alternate Materials of Construction
- Magnetic Zero
- Dual I.S. Pressure & Temperature Circuits
- Increased Temperature Capability
- Increased Accuracy

Your Application-Solution SourceSM

GT2450

Series GT2450

Specifications

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

Performance

Static Accuracy

± 0.25% FSO by BFSL.
Up to ± .10% FSO by BFSL optional.

Insulation Resistance

> 100 megohms at 50 Vdc at 70°F.

Zero Balance

4.00 mAdc ± 1% FSO at 70°F.
Magnetic zero optional.

Full Scale Output

4-20 mAdc.

Span

16.00 ± 0.16 mAdc at 70°F.

Thermal Error

Less than ± 0.020% FSO/°F typical.
Less than ± 0.005% FSO/°F optional.

Resolution

.025% FSO.

Frequency Response

Consult Factory.

Mechanical Characteristics

Standard Ranges

0 - 5, 10, 25, 30, 50, 75, 100, 200, 500,
750, 1000, 1500, 2000, 3000, 5000,
7500, 10000, 15000, 20000, 25000 and
30000 PSIA / PSIG / PSID.

Proof Pressure

1.5 times FSO range minimum.
1000 PSI for differential units.

Burst Pressure

2.0 times FSO range minimum.
3000 PSI for differential units.

Operating Media

Fluids and gases compatible with stainless
steel. Inconel and other materials optional.

Enclosure

Body of stainless steel.

Pressure Fitting

1/4" NPT Male or Female.
7/16"-20 per MS33649-4 (Female).
7/16"-20 per MS33656-4 (Male).
AE F250-C, 9/16-18 UNF for
ranges 15,000 PSI & up.
1502, 2202 Hammer Unions.

Weight

Approx. 16 ounces for gage units.
Approx. 60 ounces for differential units.

Electrical Characteristics

Excitation

9-36 Vdc unregulated at the transmitter.

Electrical Termination

PTIH-10-6P stainless steel connector or
equivalent

— or —

1/2" NPT Male conduit with 18" leads.

Wiring

Excitation/Signal: +White, -Black or
receptacle pins +A, -B.

Environmental Characteristics

Compensated Temperature Range

+30°F to +130°F.

Operating Temperature Range

-40°F to +185°F.

Dimensions (inches)

Dimensional data not shown due to number
of models available. Consult factory.

Certification / Rating

European Directive Information

The EC declaration of conformity for all applicable European
directives for this product may be obtained by contacting our
local sales office.

ATEX Directive (94/9/EC)

Stellar Technology's Quality Management System complies with
the Annex IV of the ATEX Directive.

Applied standards: EN 50014, EN 50020.

European Pressure Equipment Directive (PED) (97/23/EC)

The series GT2450 is for use on well-control equipment used in
the petroleum, gas or geothermal exploration and
extraction industry and in underground storage which is intended
to contain and/or control well pressure. In accordance with article
1 of the directive the product is exempt.

EMC Directive (89/336/EEC)

Applied standards: EN 61326,
EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,
EN 61000-4-5, EN 61000-4-6

Hazardous Location Certifications



ATEX Intrinsically Safe

Certificate No.: DNV-2003-OSL-ATEX-0258

Marking: II 1 G EEx ia IIC T4
(Tamb -40°C to 85°C)



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:
stellartech.com

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

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