



ISO 9001/AS9100 Certified

# GT2450

4-20 MA HAZARDOUS LOCATION PRESSURE TRANSMITTER

YOUR ENGINEERED SOLUTION SOURCE <sup>SM</sup>

## 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, this hazardous location pressure transmitter can be configured with the base characteristics of our other model series (e.g. GT1650 or GT1850). 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.



Select ranges and outputs in stock.

## STANDARD FEATURES

- Intrinsically Safe
- ATEX/IECEX Certified Ex ia IIC T4 Ga
- 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



A US Manufacturer of: Pressure, Temperature, Load/  
Force/Torque, and Displacement Sensors.

## PERFORMANCE

Per Base Model Series Specifications

## 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

9-28 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

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 (2014/34/EU)  
Stellar Technology's Quality Management System  
complies with the Annex IV of the ATEX Directive.  
Applied standards:  
EN 60079-0:2012 (IEC60079-0:2011).  
EN 60079-11:2012 (IEC60079-11:2011).

European Pressure Equipment Directive (PED)  
(2014/68/EU)  
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 (2014/30/EU)  
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.: Presafe 16 ATEX 8602  
Marking: II 1 G Ex ia IIC T4 Ga  
(Tamb -40°C to 85°C)

IECEx Intrinsically Safe  
Certificate No.: IECEx PRE 16.0043  
Marking: Ex ia IIC T4 Ga  
(Tamb -40C to 85C)

Entity Parameters:

Ui = 28V  
Ii = 93mAdc  
Pi = 651mW  
Ci = 41.5nF  
Li = 1.41mH

### MODIFICATIONS AND WARRANTY

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.



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