

GT2250 and GT2450 Series

4-20 mA Hazardous Location Pressure, Temperature, Load/Force and In-Line Amplifier Transmitters

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Description

GT2250 and GT2450 Series transmitters are intrinsically safe electronics packages, which can be integrally added to our standard 4-20mA devices. The GT2250 model designation signifies CSA certification for North American use and the GT2450 signifies ATEX and IECEx certification for Europe and the rest of the world. The global GT2250 and GT2450 certifications mean that nearly any of our pressure, temperature, load or in-line amplifier transmitter products can be configured for hazardous location use worldwide. This not only allows us to maintain years of fielded product but also enables us to implement new configurations by developing customized "Application-Solutions" within the GT2250 model family.



Select ranges and outputs in stock

Applications

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

- Submersible Applications
- Oilfield Drilling/Production Applications
- Sanitary Applications
- Flush Mounting Applications
- 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
 - CSA – Class I, Division 1, Groups A, B, C and D T4 (Canada & USA), Ex ia IIC T4 Ga (Canada) and Class I, Zone 0, AEx ia IIC T4 Ga (USA)
 - ATEX – II 1 G, Ex ia IIC T4 Ga
 - IECEx – Ex ia IIC T4 Ga
- Rugged Strain Gage Technology
- Reliable Long Term Stability
- Stainless Steel Construction
- Infinite Resolution
- Low Sensitivity to Shock & Vibration

Optional Features

- Customer Specified Electrical Termination
- Customer Specified Pressure Port
- Alternate Materials of Construction
- Special Ranges and Calibrations
- Hermetically Sealed



LORD DATA SHEET

PERFORMANCE

Per base model series specifications

MECHANICAL CHARACTERISTICS

Per base model series specifications

DIMENSIONS

Dimensional data not shown due to number of models available. Consult base model data sheet.

BASE SPECIFICATIONS

Excitation

9-28 Vdc unregulated at the transmitter.

Full Scale Output

4-20 mAdc.

Insulation Resistance

>100 megohms at 50 Vdc at 70°F.

Operating Temperature Range

-40°F to +185°F.

BASE MODEL OPTIONS*

See base model series specifications

Pressure

GT18XX; GT16XX; ST35XX

Temperature

T28XX

Dual Output (Pressure + Temperature)

PT17XX

Load / Force

PNC710; LDP990; RDE900; PNC720;
PNC700; PNC740; Coil Tubing Models

*Consult factory for other hazardous location certified options

CERTIFICATION / RATING

GT2250 CSA

Hazardous Location Certification

CSA Rated

Intrinsically Safe Class I, Division 1,

Groups A,B,C,D T4

Class I, Zone 0, AEx ia IIC T4 Ga

Certificate No.: 1140235

Applied Standards

CSA STD C22.2 No. 142M1987

CAN/USA – C22.2 No. 60079-0:15

CAN/USA – C22.2 No. 60079-11:14

CSA C22.2 No. 213-M1987

UL 916

UL 1604

ANSI/ISA-60079-0 (12.00.01)-2013

ANSI/ISA-60079-11 (12.02.01)-2014

Entity Parameters

Ui = 28 Vdc, Ii = 93 mAdc, Ci = 41.5nF,

Li = 1.41mH

GT2450 ATEX / IECEx

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 -40°C to 85°C)

Entity Parameters

Ui = 28V, Ii = 93mAdc, Pi = 651mW

Ci = 41.5nF, Li = 1.41mH



Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

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