

Series GT34XX

Compact Size Pressure Transducers and Pressure Transmitters



Description

The Series GT34XX pressure transducers and pressure transmitters offer superior price/performance value for higher volume and OEM applications. The Series GT34XX pressure transducers are compact in size and constructed of all stainless steel and incorporate a unique sputtered thin film bridge network with a unique isolation layer that protects the strain gages. These design features provide a rugged package for harsh environments. Pressure ranges for the Series GT34XX pressure transducers start at 300 psig and extend to 15,000 psig. Standard current and voltage analog outputs, as well as CANopen digital output, are available. The internal signal conditioning electronics are industrial grade and EMI/RFI protected. Typical applications for the Series GT34XX pressure transducers are industrial and automation control systems, compressor control, pump monitoring, natural gas systems, robotics, industrial OEM equipment, generator sets, wind turbines, HVAC systems, and off-road and agricultural equipment. Each unit is shipped with a multi-point calibration record traceable to NIST as standard.

Standard Features

- Excellent Price/Performance Value
- Compact Size
- High Level Output (Analog & Digital)
- $\pm 0.5\%$ FSO Accuracy
- Stainless Steel Construction
- EMI/RFI Protected
- Multi-Point Calibration Record Traceable to NIST

Optional Features

- Metric Pressure Port
- Mating Connector/Cable Assemblies
- Special Calibrations

GT34XX

Series GT34XX Specifications

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

Performance

Static Accuracy

± 0.5% FSO by BFSL.

Repeatability

≤ 0.05% FSO.

Thermal Error

± 0.02% FSO /°F (Span).

± 0.02% FSO /°F (Zero).

Mechanical Characteristics

Standard Ranges

500, 750, 1000, 1500, 2000, 3000, 5000,
7500, 10000, 20000, PSIG.

Proof Pressure

2.0 X range.

Burst Pressure

>8X nominal pressure (max 60,000 psi).

Operating Media

Fluids and gases compatible with 17-4
stainless steel.

Enclosure

316 stainless steel.

Pressure Fitting

1/4" NPT Male (standard).

Metric options available.

Weight

Approximately 3 oz.

Electrical Characteristics

Outputs

Analog:

4-20 mA; 0-5 Vdc; 0-10 Vdc; 1-5 Vdc;
1-10 Vdc.

Digital:

CANopen.

Excitation

Analog:

Current Outputs:
10-33 Vdc unregulated.

Voltage Outputs:

(0-5 Vdc and 1-5 Vdc): 10-33 Vdc.

Voltage Outputs:

(0-10 Vdc and 1-10 Vdc): 14-33 Vdc.

Digital:

CANopen (12-33 Vdc).

Electrical Termination

4 pin M12 Connector.

Wiring Code (Analog)

Current:

Pin 1 = + Supply Pin 2 = n/c

Pin 3 = Signal Pin 4 = n/c.

Voltage:

Pin 1 = + Supply Pin 2 = n/c

Pin 3 = Common Pin 4 = Signal.

5 pin M12 Connector.

Wiring Code (Digital) CANopen:

Pin 1 = n/c Pin 2 = + Supply

Pin 3 = Ground Pin 4 = CANH

Pin 5 = CANL Housing = Ground.

Insulation Resistance

> 100 megohms at 50 Vdc at 70°F.

Electrical Protection

EMI/RFI Protected.

Environmental Characteristics

Compensated Temperature Range

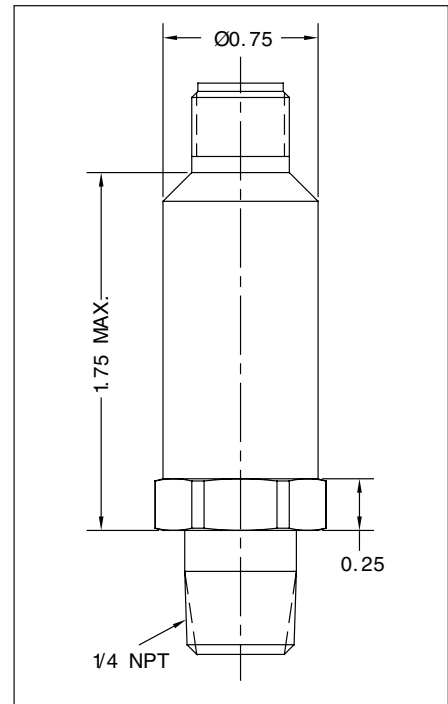
-15°F to +185°F.

Options available.

Operating Temperature Range

-15°F to +185°F.

Dimensions (inches)



MODEL IDENTIFICATION

G	T	3	4	X	X
SERIES		ANALOG OUTPUT		DIGITAL OUTPUT	
		0 = Volts		0 = None	
		1 = None		4 = CANopen	
		5 = Current			

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

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