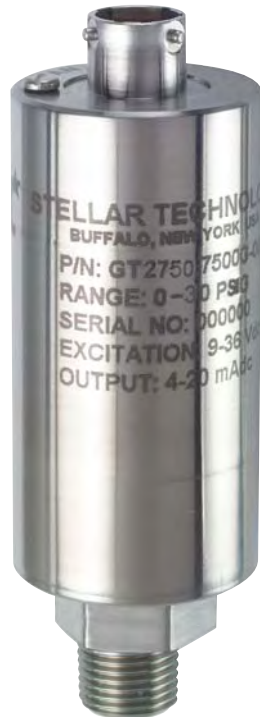
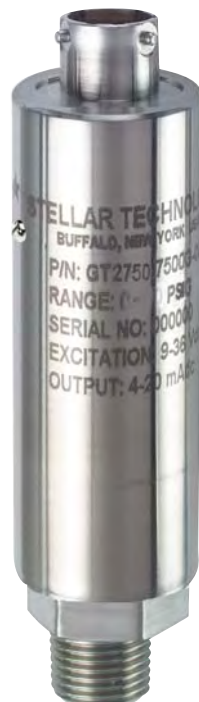


Series GT27XX

Industrial Pressure Transducers / Pressure Transmitters



5 - 30 PSI - O.D.=1.5". (Zero Pot on Top)



50 PSI and up - O.D.=1". (Zero Pot on Side)

Description

The Series GT27XX pressure transducers and pressure transmitters are designed to meet the requirements of demanding test and measurement environments. The GT27XX sensors provide improved 0.15% accuracy and high level outputs. Standard analog outputs, plus RS232, RS485, and CANbus digital outputs, are standard features. A zero adjustment pot is designed into each GT27XX transducer. For voltage output units, isolated voltage output comes standard. Pressure ranges extend to 40,000 psi in both gage and absolute references. Each of these pressure transducers is manufactured to be shock and vibration resistant. A comprehensive selection of pressure ports and electrical terminations is available. Each unit is shipped with a 15 point calibration record traceable to NIST as standard.

Standard Features

- $\pm 0.15\%$ FSO Accuracy
- High Level Output (Analog & Digital)
- Zero Adjustment Pot
- Isolated Voltage Output (For Voltage Output Units)
- Pressure Ranges to 40,000 psi
- Stainless Steel Construction
- Shock and Vibration Resistant
- 15 Point Calibration Record Traceable to NIST

Optional Features

- Customer Specified Electrical Connections
- Customer Specified Pressure Ports
- Wetted Material Alternatives
- Span Adjustment Pot
- Special Calibrations

GT27XX

Series GT27XX Specifications

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

Performance

Static Accuracy

± 0.15% FSO by BFSL.

Resolution

Analog: Infinite.

Digital: .025% FSO.

Thermal Error

< ± 0.020% FS/°F (typical).

Zero Balance

± 1% FSO at 70°F.

Zero Adjustment: ±5% FSO.

Span

± 0.50% FSO at 70°F.

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, 40000 PSIA / PSIG / PSIS.

Proof Pressure

1.5 X range.

Burst Pressure

2.0 X range.

Operating Media

Fluids and gases compatible with

17-4 stainless steel.

Inconel and other materials optional.

Enclosure

Body of stainless steel.

Pressure Fitting

(For ranges 5 psi thru 10,000 psi).

1/4" NPT Male (Standard).

1/4" NPT Female (No charge option).

(For ranges 15,000 psi thru 40,000 psi)

AE F250-C, 9/16"-18 UNF, or equivalent (Standard).

For additional pressure fittings please consult factory.

Weight

6 oz.

Length ("L" Dimension)

1.5 in. OD:

PSIG: L = 3.47" Max

PSIS/PSIA L = 4.17 in. Max

Without Zero Pot reduce L by 0.5"

1.0 in. OD:

PSIG units: L = 3.26 in. Max

PSIA/PSIS units L = 4.06 in. Max

Without Zero Pot reduce L by 0.77 in.

Electrical Characteristics

ANALOG OUTPUTS

Excitation

4-20mA Current Loop:

9-36 Vdc for 2-wire.

9-36 Vdc for 3-wire.

Isolated Voltage Output (0-5 Vdc, 0-10 Vdc):

14-32 Vdc (standard).

8-18 Vdc (No charge option).

Non-Isolated Voltage Output:

8-40 Vdc for 1-5 Vdc, 3-wire

(standard).

8-40 Vdc for 1-6 Vdc, 3-wire

(No charge option).

8-40 Vdc for 0-5 Vdc, 4-wire

(No charge option).

Additional outputs and related excitations available.

DIGITAL OUTPUTS

Excitation

RS-232, RS-485, CANbus

8-30 Vdc.

Programming

PC. (There is no zero pot. Zero adjustment can be made using software.)

DUAL OUTPUTS (Analog & Digital)

Excitation

3-wire Current plus Digital:

12-32 Vdc.

Isolated Voltage plus Digital:

14-32 Vdc.

Non-Isolated Voltage plus Digital:

8-30 Vdc.

COMMON

Insulation Resistance

> 100 megohms at 50 Vdc at 70°F.

Electrical Termination

PTIH-10-6P stainless steel connector or equivalent. Options available.

Optional electrical terminations available.

Electrical Protection

- EMI Protected.
- (Optional for Isolated Voltage).
- Surge Protection to 500 Vdc.
- (Optional for Isolated Voltage).
- Reverse polarity protected.
- Short circuit protected.

Environmental Characteristics

Compensated Temperature Range

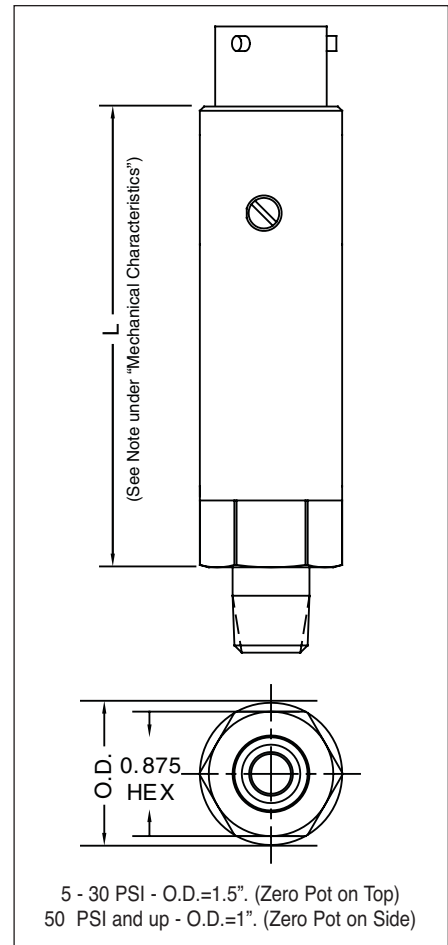
-30°F to +170°F. Options available.

Operating Temperature Range

-65°F to +250°F.

(Note: Maximum Operating Temperature for digital output is +185°F)

Dimensions (inches)



MODEL IDENTIFICATION

G	T	2	7	X	X
SERIES					
		ANALOG OUTPUT		DIGITAL OUTPUT	
		0 = Isolated Voltage		0 = None	
		1 = None		1 = RS-485	
		2 = Non-Isolated Voltage		2 = RS-232	
		5 = 4-20 mA 2-wire Loop (not available with Digital Output)		4 = CANbus	
		6 = 4-20 mA 3-wire			



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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