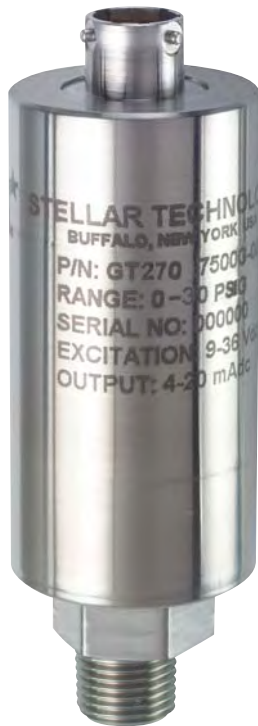


# Series GT270

Industrial Pressure Transducers



## Description

The Series GT270 pressure transducers are 0.15% accuracy millivolt/volt output units designed specifically for test and measurement applications. The GT270 pressure transducer utilizes a unique bonded beam sensing technology which provides improved reliability. All units are constructed of welded stainless steel. Standard pressure ranges are 15 psi to 40,000 psi in both gage and absolute references. All GT270 pressure transducers are shock and vibration resistant. A comprehensive selection of pressure ports and electrical terminations are also available. Each unit is shipped with a standard 19 point calibration record traceable to NIST.

## Standard Features

- $\pm 0.15\%$  FSO Accuracy
- 3 mV/V Output
- Stainless Steel Construction
- Ranges to 40K
- 19 Point Calibration Record

## Optional Features

- Customer Specified Electrical Connectors
- Special Ranges
- Customer Specified Pressure Ports
- Shunt Calibration
- Zero Adjustment Pot

# GT270

# Series GT270 Specifications

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

## Performance

### Static Accuracy

± 0.15% FSO.  
± 0.20% FSO (15 PSIG - 200 PSIG).

### Resolution

Infinite.

### Thermal Zero Shift

< ± 0.010% FSO/°F (typical).

### Thermal Sensor Shift

< ± 0.010% FSO/°F (typical).

### Zero Balance

±0.50% FSO at 70°F.

### Full Scale Output

3.0 ± 0.015 mV/V at 70°F.

## Mechanical Characteristics

### Standard Ranges

0 - 15, 25, 30, 50, 75, 100, 200, 500,  
750, 1000, 1500, 2000, 3000, 5000,  
7500, 10000, 15000, 20000, 25000,  
30000 and 40000 PSIA / PSIG.

### Proof Pressure

1.5 X range.

### Burst Pressure

2.0 X range.

### Operating Media

Fluids and gases compatible with 316 and  
17-4 stainless steel.

Inconel and other materials optional.

### Enclosure

Body of stainless steel.

### Pressure Fitting

(For ranges 15 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.

## Electrical Characteristics

### Excitation

10 Vdc recommended, 15 Vdc max.

### Input / Output Resistance

350 ± 3.5 ohms at 70°F.

### Insulation Resistance

> 10K megohms at 50 Vdc at 70°F.

### Electrical Termination

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

Optional electrical terminations available.

## Environmental Characteristics

### Compensated Temperature Range

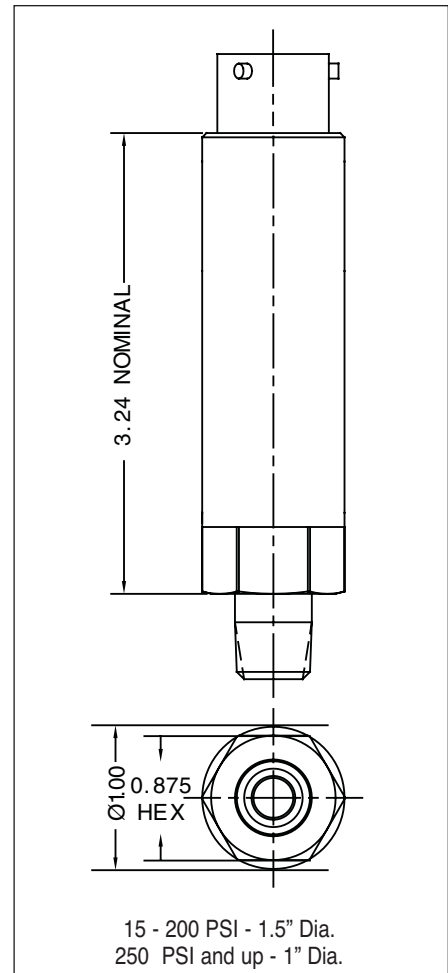
-30°F to +170°F.

Options available.

### Operating Temperature Range

-65°F to +250°F.

## Dimensions (inches)



CE

0539

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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