

# Series ST560

Miniature Flush Diaphragm Pressure Transducer

# ST560



## Standard Features

- Stainless Steel Construction
- Flush diaphragm
- Small size
- Light weight
- Thermetically sealed
- 3/4" body

## Optional Features

- Alternative electrical terminations
- Alternative pressure ports
- Temperature output
- Improved temperature coefficients

## Description

The Series ST560 is an extremely small, accurate, reliable flush diaphragm pressure transducer for measuring dynamic and static pressures. The unit is made entirely of stainless steel with a one piece sensing element offering rugged durability.

The major feature of design is its flush diaphragm. Other features include small size, long term stability, low sensitivity to shock and vibration, wide temperature range, excellent response to transient pressures, and infinite resolution.

# Series ST560 Specifications

Baseline Configuration Specs Represented.  
Modifications Encouraged - See Below

## Performance

### Static Accuracy

± 0.40% FSO by BFSL.

### Resolution

Infinite

### Thermal Error

< ± 0.020% FSO/°F.

### Insulation Resistance

> 10K megaohms at 50 Vdc at 70°F.

### Zero Balance

±1% FSO at 70°F.

### Output Signal

3 mV/V of excitation @ 70°F.

### Frequency Response

Consult Factory.

## Mechanical Characteristics

### Standard Ranges

0 - 2000, 3000, 5000, 7500 and 10000  
PSIA / PSIG.

### Proof Pressure

1.5 times FSO range minimum.

### Burst Pressure

3.0 times FSO range minimum.

### Operating Media

Fluids and gases compatible with stainless steel. Inconel and other materials optional.

### Enclosure

Body of stainless steel.

### Pressure Fitting

7/16-20 per MS33656-4 with flush diaphragm. Mounting torque of 100 in/lbs required.

### Weight

Approximately 3.5 ounces.

## Electrical Characteristics

### Excitation

10 Vdc recommended, 15 Vdc maximum.

### Input/Output Resistance

350 ±20 ohms at 70°F.

### Electrical Termination

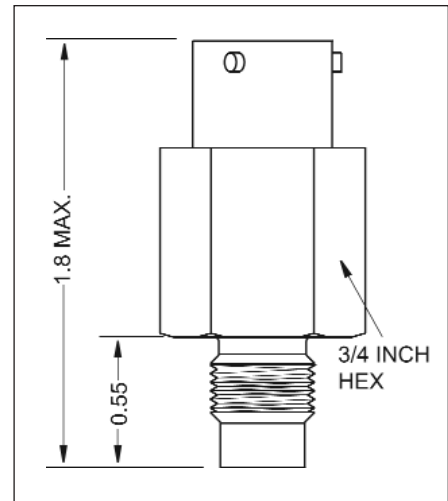
PT1H-10-6P stainless steel connector or equivalent.

## Environmental Characteristics

**Compensated Temperature Range**  
-65°F to +250°F. Options available.

**Operating Temperature Range**  
-100°F to +300°F. Options available.

## Dimensions (inches)



## 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. See accessory listing for additional choices.

## 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.

## Ordering Information

Contact the factory or your Authorized Stellar Technology, Inc. Representative.

## Represented By:

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