Series FT26XX

Miniature Flush Diaphragm Pressure Transducer

FT26XX

Description

The Series FT26XX 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.

Standard Features

- **Stainless Steel Construction**
- **Flush diaphragm**
- **Small size**
- **Light weight**
- **Hermetically sealed**
- **1” body**

Optional Features

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

Your Application-Solution Source℠

Series FT26XX
Specifications

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

Performance

Static Accuracy
± 0.25% FSO by BFSL.

Resolution
Analog: Infinite.
Digital: .025% FSO.

Thermal Zero Shift
< ± 0.020% FSO/°F.

Thermal Span Shift
< ± 0.020% FSO/°F.

Insulation Resistance
Greater than 100 megohms at 50 Vdc at 70°F.

Zero Balance
±1% FSO at 70°F.

Span
±1% FSO at 70°F.

Frequency Response
Consult Factory.

Mechanical Characteristics

Standard Ranges
0 - 500, 1000, 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

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.Please consult factory.

DIGITAL OUTPUTS

Excitation
RS-232, RS-485, CANbus.
8-30 Vdc.
Programming
PC.

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.

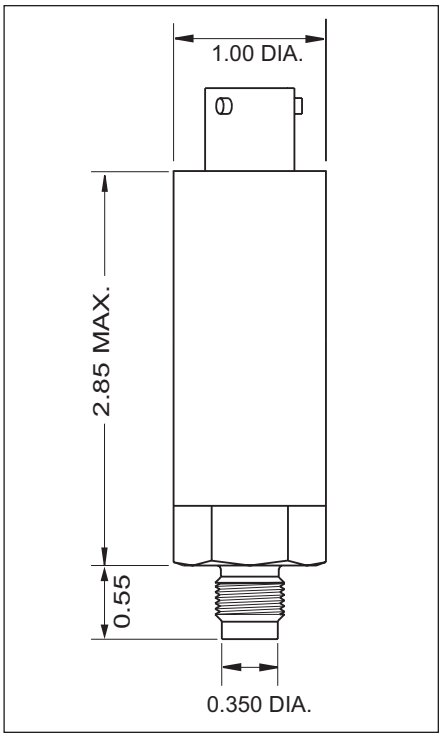
Electrical Protection
- EMI Protected. (Optional for Isolated Voltage).
- Surge Protection to 500 Vdc. (Optional for Isolated Voltage).
- Reverse polarity protected.
- Short circuit protected.

Environmental Characteristics

Compensated Temperature Range
-30°F to +170°F.
Options available.

Operating Temperature Range
-65°F to +250°F.

Dimensions (inches)



MODEL IDENTIFICATION

F T 2 6 X X

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

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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 For More Information at: stellartech.com

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

ISO 9001:2000

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