

Series FT15XX

Flush Pressure Transducers

FT15XX



Description

The FT15XX is a unique series of pressure sensors that offer flush mounting. The heart of this series starts with two small and compact sensors encompassing low range to high range capability. These units offer a variety of standard features, including many high level digital and analog signals. Alternative versions offer temperature sensing along with high hazardous area capability.

As with all other STI sensors, the FT15XX series offers rugged, reliable bonded foil strain gage technology and “state of the art” circuit design. The unit provides low sensitivity to shock and vibration, infinite resolution and high response rates. It is serviceable and complements the “Application-Solutions” demanded by today’s market place.

Standard Features

- Stainless Steel Construction
- Traceability to NIST
- Low Range Proof Pressure Protection
- Hermetically Sealed
- Small, Compact Size

Optional Features

- Various Flush Configurations
- On-Board or Remote Electronics
- Alternate Materials of Construction
- High Temperature Operation

Areas of applications where we can assist include:

- Gage/Absolute/Compound/Vacuum
- & Differential Configuration for:
 - Submersible Applications
 - Oilfield Drilling/Production Applications
 - Sanitary Applications
 - Flush Mounting Applications
 - OEM Customization
 - Barometric Correction
 - Plant Automation

The brief specifications listed on the back are but a few of the more important parameters of interest; make sure to contact the sales office closest to you for further definition. In most cases, independent data sheets support these applications and provide additional information.

Your “Application-SolutionSM” Source

Series FT15XX Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below

Performance

Static Accuracy

± 0.2% FSO by BFSL.

Resolution

Analog: Infinite.
Digital: .025% FSO.

Thermal Zero Shift

< ± 0.005% FSO/°F.

Thermal Span Shift

< ± 0.005% FSO/°F.

Zero Balance

±1% FSO at 70°F.

Span

± 1% FSO at 70°F.

Frequency Response

Consult Factory.

Mechanical Characteristics

Standard Ranges

LARGE NOSE

0 - 3, 10, 25, 30, 50, 75, 100, 200, 500,
750, 1000, 1500

SMALL NOSE

2000, 3000, 5000, 7500, 10000, 15000,
20000, 25000 and 30000 PSIA / PSIG.

Proof Pressure

3-200 PSI ranges: 500 PSI.
500 PSI range & up: 1.5 x Range.

Burst Pressure

2.0 times range or 1500 PSI,
whichever is greater.

Operating Media

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

Enclosure

Body of stainless steel.

Mounting

LARGE: 1.25" flange mountable.
1-1/4" NPT male mounting available.
(see accessories)

SMALL: 1/4" AN OR NPT male.
1.5K & up: AE F250C 9/16"-18 UNF.

Weight

3 - 7 oz.

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.

Electrical Characteristics

ANALOG OUTPUTS

Excitation

Current Loop:
9-36 Vdc unregulated for 4-20 mA.
Isolated Voltage Output:
10-18 Vdc or 22-35 Vdc unregulated.

Non-Isolated Voltage Output:

8-30 Vdc unregulated.
3 or 4 wire available.

DIGITAL OUTPUTS

Excitation

RS-232, RS-485, CAN
8-30 Vdc unregulated.

COMMON

Electrical Receptacle

Stainless steel to mate with a
PT06-10-6S (MS3116-10-6S).

Electrical Protection

- EMI/RFI protected.
- Surge protection to 500 Vdc.
- Reverse polarity protected.
- Short circuit protected

Insulation Resistance

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

Environmental Characteristics

Compensated Temperature Range

+30°F to +170°F.
Options available.

Operating Temperature Range

-65°F to +250°F.

MODEL IDENTIFICATION

F	T	1	5	X	X
		<u>SERIES</u>	<u>ANALOG OUTPUT</u>	<u>DIGITAL OUTPUT</u>	
			0 = Volts	0 = None	
			5 = Loop	1 = RS-485	
			1 = None	2 = RS-232	
				3 = PDA	
				4 = CANBUS	

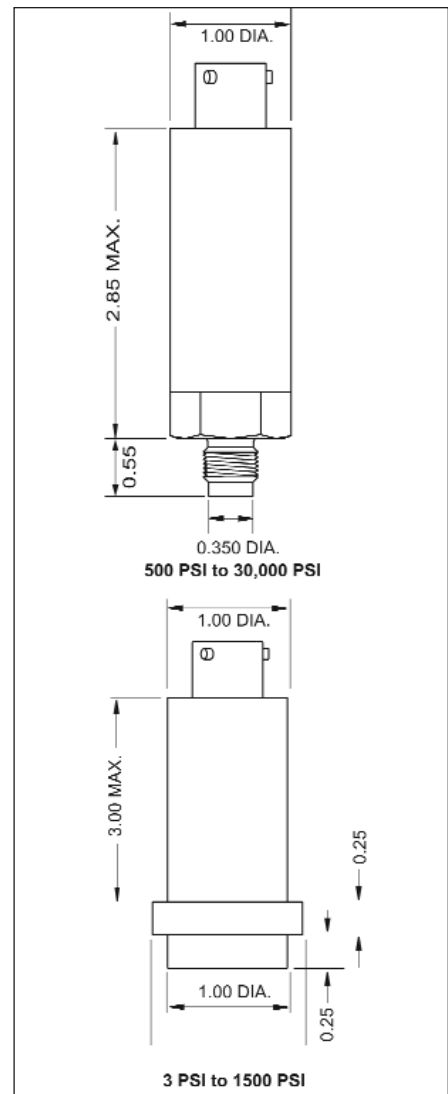
Warranty

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.

Dimensions (inches)



0539

Stellar Technology Incorporated is an
ISO 9001:2000
Registered Company

Represented By:



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

