

# Series GT21XX

Submersible Pressure Transducers



## Description

The GT21XX liquid level pressure sensors feature STI's rugged reliable strain gage sensing elements. These are coupled with advanced "State of the Art" electronics to provide high level signals.

The GT21XX is small, accurate and reliable while providing excellent thermal characteristics, resistance to shock and vibration, and infinite resolution. The standard unit offers a wide spectrum of operating ranges, stainless steel welded construction, various electrical terminations and a variety of nosepieces.

As in all STI products a wide variety of options are available to provide the "Application-Solution" to your application resolution.

## Standard Features

- $\pm 0.25\%$  Accuracy
- Removable Nose Piece
- High Resistance To Shock
- Reliable, Long-term Stability

## Optional Features

- Improved Accuracy
- Improved Temperature Performance
- Subsea Receptacle
- Low Current Draw Electronics

# GT21XX

# Series GT21XX Specifications

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

## Performance

### Static Accuracy

± 0.25% FSO by BFSL or  
± 0.1% FSO by BFSL (optional).

### Resolution

Analog: Infinite.  
Digital: .025% FSO.

### Thermal Error

< ± 0.020% FSO/°F typical.  
< ± 0.005% FSO/°F optional.

### Insulation Resistance

> 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 - 5, 10, 25, 30, 50, 75, 100, 200, 500,  
750, 1000, 1500, 2000, 3000, 5000,  
7500, 10000, 15000, and  
30000 PSIA / PSIS / PSIG.

### Proof Pressure

1.5 times FSO range minimum.

### Burst Pressure

2.0 times FSO range minimum.

### Operating Media

Fluids and gases compatible with  
316 stainless steel and Inconel.  
Other materials optional.

### Enclosure

Body of welded stainless steel.

### Pressure Fitting

1/4" NPT Male.

### Nosepiece

Detachable nosepiece with 3/8" vent  
holes - 4 places.

Non-metallic: standard.

Zinc sacrificial: optional.

### Weight

Approx. 8 ounces excluding cable.

## Electrical Characteristics

### ANALOG OUTPUTS

#### Excitation

4-20mA Current Loop:

2-wire 9-36 Vdc unregulated.

3-wire 14-40 Vdc unregulated.

Isolated Voltage Output:

8-18 Vdc or 14-32 Vdc unregulated.

Non-Isolated Voltage Output:

8-40 Vdc unregulated.

3 or 4 wire available.

### DIGITAL OUTPUTS

#### Excitation

RS-232, RS-485, CANbus

8-30 Vdc unregulated.

#### Programming

PC.

### COMMON

#### Electrical Connection

- Rubber without vent tube, standard.
- Polyurethane with vent tube, optional.
- Cable length - customer specified.

#### Electrical Protection

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

## Environmental Characteristics

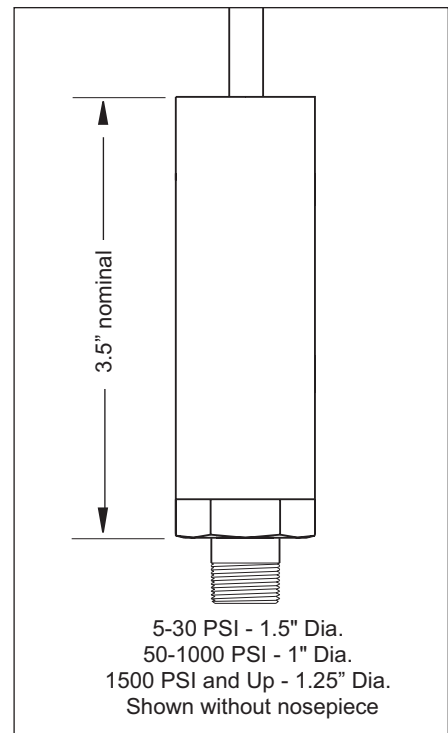
### Compensated Temperature Range

+30°F to +130°F.

### Operating Temperature Range

-40°F to +185°F.

## Dimensions (inches)



## MODEL IDENTIFICATION

G	T	2	1	X	X
		<u>SERIES</u>	<u>ANALOG OUTPUT</u>	<u>DIGITAL OUTPUT</u>	
			0 = Volts	0 = None	
			5 = 2-wire Loop	1 = RS-485	
			6 = 3-wire Loop	2 = RS-232	
			1 = None	4 = CANbus	



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

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