

# ST Series

## Submersible Pressure Transmitter



### *Shallow or Deep Well Measurement*

#### **Designed for low cost of ownership**

Dylix's ST Series Submersible Pressure Transmitter is designed for low cost of ownership for level /depth measurement applications in shallow or deep wells. Key features of the ST is its long term stability, internal protection from lightning via dual gas discharge tubes, internal EMI/RFI filtering, double sealed cable exit and a maintenance free vent filter.

#### **Manufactured for extended life cycle**

Every ST Series is built using advanced manufacturing techniques to ensure the integrity of the waterproof seal. Double sealing techniques are used and 100 % of all ST Series are submerged at our factory for at least 24 hours. Automated welding procedures and extreme environmental burn in, along with the internal protection against the harsh well conditions give Dylix's customers the confidence of product reliability over time.

#### **Low power / alternate materials available**

From 0-5ft H<sub>2</sub>O through 0-1500ft H<sub>2</sub>O, the ST Series is available in either a 4-20 mA or 0-5 Vdc output signal. For remote or battery powered systems, a low power option is available from a 5 Vdc, 1.5 mA supply. To further enhance battery life, warm-up time is less than 3 mS. Other options include alternate materials of construction or Tefzel® cable.

#### **Dylix's Customer Service**

Each ST Series is delivered in 1-2 Weeks ARO with a

Internal Lightning  
Protection Standard



Alternate Materials  
available

#### **Standard Features**

*Moisture Free/Maintenance Free Vent Filter  
EMI/RFI filtering with lightning protection  
Standard accuracy  $\pm 0.5\%$  FSO  
Double sealed cable exit*

#### **Available Options**

*$\leq \pm 0.1\%$  FSO Static Accuracy  
Remote Zero/Span Controls with Cal  
Digital Output*

Shown with standard product

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*Design & Manufacture of  
Pressure Instruments*

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# ST Series Pressure Transmitter



0-3 psi through 0-1,000 psi  
High Stability Depth/Level Transmitter

## Product Specifications

### Electrical

Excitation	8-38 Vdc*
Output	
ST2	0-5 Vdc*
ST3	4-20 mA <sub>dc</sub>
Zero Balance	≤±1% FSO
FSO Setting	≤±1% FSO
Resolution	Infinite (±.001% FSO usable)
Response Time	<5 mS
Insulation Resistance	1000 MΩ @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 3 mS
Power Supply Effect	≤±.002% FSO per V input
EMI/RFI	Internal Filtering
Short Circuit Protected	Up to 40 Vdc
Lightning Protected	Dual gas discharge tubes

### Mechanical

Pressure Ranges	0-3 through 0-1000 psi (Customer may specify any range/eng. unit FOC) (Absolute, vacuum, compound available options)
Proof Pressure	2X Full Scale
Burst Pressure	5X Full Scale
Materials	316L & 15-5 SST*
Pressure Port	PVC Cap*
Electrical Connector	Submersible cable exit with 10ft polyurethane cable*
Dimensions	per outline below
Weight	Nominal 10 oz (excluding cable)

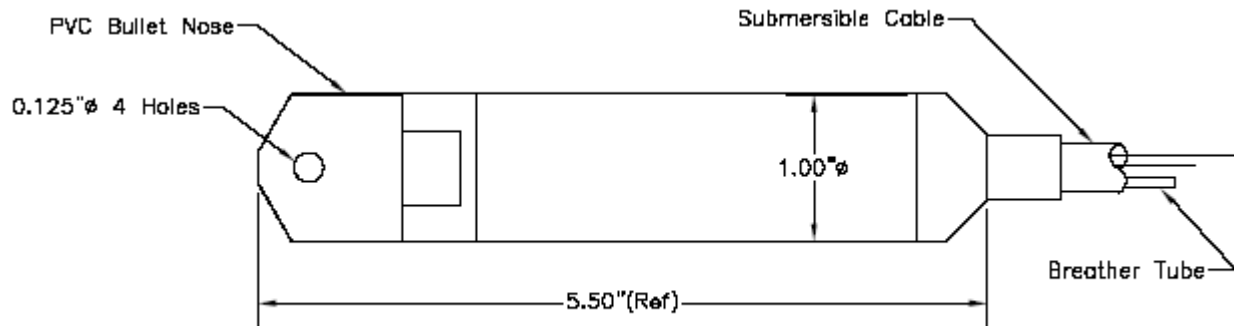
### Environmental

Compensated Temp Range	20 to 120 °F
Operating Temp Range	0 to 200 °F
Storage Temp Range	-20 to 250 °F

### Performance

Static Accuracy	≤±0.5% FSO* (BFSL, RSS)* (combined effects of non-linearity, hysteresis, & repeatability)
Repeatability	≤±0.1% FSO
Temperature Effects	≤±1.5% FSO over comp range* (combined effects of zero & FSO with reference at 70 °F)
Long Term Stability	≤±0.25% FSO per year

### \*Options Available



### Standard Wiring:

Model	Output	+Power	-Power	+ Signal	- Signal
ST1	mV/V dc 4 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	White/Pin 4/Pin D
ST2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	+ Sig ref to - Power
ST3	4-20 mA <sub>dc</sub> 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

Dylix Corporation reserves the right to change specifications without prior notification. Please contact the factory for the latest revision.

Data Sheet ST-07 Rev A