Request Quote

Dylix Corporation

Submersible Pressure Transmitter

ST Series

Shallow or Deep Well Measurement

Design & Application.

Performance/cost at single piece quantities

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 are its long term stability, internal protection from lightning via dual gas discharge tubes, internal EMI/RFI filtering, double sealed waterproof cable exit and a maintenance free vent filter. Ranged from 0-5ft H_2O through 0-1500ft H_2O, the ST Series is available in either a 4-20 mA or 0-5 Vdc output signal..

Manufacturing & Quality

The ST Series is built using an advanced modular assembly process that allows high customization and short delivery times. Innovative manufacturing and 100% 24 hour duration testing techniques ensure the integrity of the double sealed connection. Automated welding procedures and extreme environmental burn-in, along with the internal protection against harsh well conditions, give Dylix's customers the confidence of long term product reliability.

Dylix's Customer Service

Each ST series is delivered with a NIST traceable calibration certificate. Annual re-calibration and repair/refurbishment services are available.

Standard Features

- **Moisture Free/Maintenance Free Vent Filter**
- **EMI/RFI filtering with lightning protection**
- **≤±0.5% FSO Static Accuracy**
- **Double sealed cable exit**
- **≤± 0.25% FSO/yr long term stability**

Optional Features

- **≤± 0.1% FSO Static Accuracy**
- **Low power (5 Vdc, 1.5 mA) - < 3 msec warm-up time maximizes battery life**
- **Remote Zero/Span Controls with Cal Digital Output**
- **Alternate wetted materials: Hastelloy C-276**
- **Alternate cable: Hytrel & Tefzel©**
- **Intrinsically Safe**

Contact Dylix Sales for Other Custom Applications...
sales@dylixcorp.com • 716.773.2985

Specifications: ST Series

Submersible Pressure Transmitter

0-5 through 0-1,500 ftwc High Stability Depth/Double Seal Level Transmitter

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

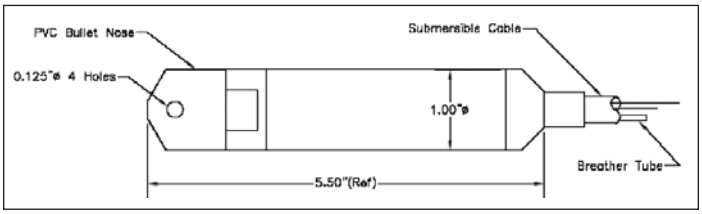
Electrical

Excitation	9-38 Vdc*
Output	
ST2	0-5 Vdc*
ST3	4-20 mAdc
ST7	4-20 mAdc Intrinsically Safe
Zero Balance	≤± 1% FSO
FSO Setting	≤± 1% FSO
Resolution	Infinite (± 0.001% FSO usable)
Response Time	< 5 mS
Insulation Resistance	1,000 M Ω @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 3 mS
Power Supply Effect	≤± 0.002% FSO per V input (ST2, ST3, ST7)
EMI/RFI	Internal Filtering (ST2, ST3, ST7)
Short Circuit Protected	40 Vac (ST2, ST3, ST7)
Lightning Protected	Dual gas discharge tubes

Mechanical

Pressure Ranges	0-5 through 0-1500 ftwc (Customer may specify any range/eng. unit) (Absolute, vacuum, compound available options)
Proof Pressure	2X Full Scale
Burst Pressure	5X Full Scale
Materials	316 ss & 17-4*
Pressure Port	PVC Bullet Nose*
Electrical Connection	Submersible cable exit with 10ft vented polyurethane cable*
Dimensions	Per Drawing
Weight	10 oz (nominal) excluding cable

Product Dimensions (inches)



Performance

Static Accuracy	≤± 0.25% 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

Environmental

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

Certifications

CSA/CUS Intrinsically Safe Class I Div. 1 Groups A,B,C,D T4
CSA/CUS Intrinsically Safe Zone 0,1&2 (A)Ex ia IIC T4 Ga

Entity Parameters

Vmax, Ui	32 Vdc
Imax, Ii	100 mA
Pmax, Pi	800 mW
Ci	0.055 μF
Li	0 mH

Standard Wiring

Model	Output	+ Power	- Power	+ Signal	- Signal
ST2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	Black/Pin 2/Pin B
ST3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	
ST7	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

***Options Available**

Modifications and Warranty

MODIFICATIONS: Transducer/Transmitter applications vary greatly. As such our designs are flexible. Choices such as pressure ports, electrical termination, material compatibility, and performance are a few of the many options available. Specifications on this datasheet represent standard configuration only. Product and company names that may be listed are trademarks of their respective companies. Any and all specifications subject to change without notice.

WARRANTY: Dylix Corporation 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 Dylix Corporation's obligation 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 Dylix Corporation. This warranty is in lieu of all other warranties expressed or implied.

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

NIST Traceability

A US Designer and Manufacturer of Pressure Transducers & Transmitters

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