

Small Bore Submersible Pressure Transmitter STD Series



High Accuracy / Stability Pressure Transmitter

Design & Application

Performance/cost at single piece quantities

Dylix's STD 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 STD are its smaller diameter, 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 0-5 through 0-1500 ftwc, the STD Series has a 4-20 mA output signal.

Manufacturing & Quality

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

Dylix's Customer Service

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

Standard Features

- Maintenance Free Moisture Vent Filter
- EMI/RFI filtering with lightning protection
- $\leq \pm 0.25\%$ FSO Static Accuracy
- Double sealed cable exit
- 0.75" diameter

Optional Features

- $\leq \pm 0.1\%$ FSO Static Accuracy
- 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: STD Series

Submersible Pressure Transmitter

0-1 through 0-3,000 psi Small Bore / High Accuracy

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

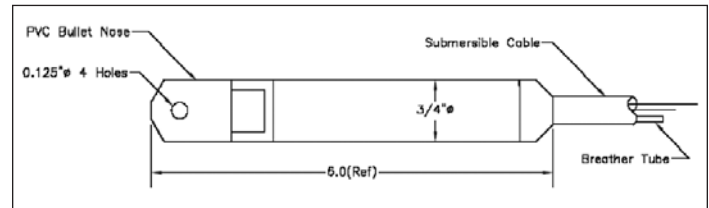
Electrical

Excitation	9-38 Vdc
Output	
STD3	4-20 mAdc
STD7	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	< 5 mS
Power Supply Effect	± 0.002% FSO per V input (SDT3, STD7)
EMI/RFI	Internal Filtering (STD3, STD7)
Short Circuit Protected	40 Vac (STD3, STD7)

Mechanical

Pressure Ranges	0-1 through 0-3000 psi (Customer may specify any range/eng. unit) (Absolute, vacuum, compound available options)
Proof Pressure	2X Full Scale
Burst Pressure	5X Full Scale
Materials	
Wetted Parts*	316 ss & 17-4
Non-wetted Parts*	316 ss
Pressure Port	PVC Bullet Nose*
Electrical Connector	Submersible cable exit with 10ft vented polyurethane cable*
Dimensions	Per Drawing
Weight	Approximately 10 oz excluding cable

Product Dimensions (inches)



Performance

Static Accuracy	± 0.25% FSO* (BFSL, RSS)* (Combined effects of non-linearity, hysteresis & repeatability)
Repeatability	± 0.05% 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	-40° 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

Standard Wiring

Model	Output	+ Power	- Power	+ Signal	- Signal
STD3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	
STD7	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: Dylux 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 Dylux 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 Dylux 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.*



A US Designer and Manufacturer of
Pressure Transducers & Transmitters

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