

ST & STD Series

Industrial Pressure Sensor



Installation and Operating Manual

For assistance with the operation of this product contact: Dylix Corporation Phone: 716-773-2985 Fax: 716-773-2786 E-mail: sales@dylixcorp.com Web: <u>www.dylixcorp.com</u>

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1.0 Introduction

Dylix ST & STD Series Pressure Sensors are designed for general pressure applications within the range and environmental conditions as specified within the Model applicable Series data sheet. This information is provided as a general guide for the installation and use of this series. For non standard options or features the factory may be contacted directly.

2.0 Description

This series is manufactured with 316 & 17-4 SS and its use is suitable for medias compatible with those materials. The sensor element is all-welded cavity style suitable for fluid or gas medias. Standard pressure port Thread is 7/16-20 for both the ST and STD series with 7/8-14 for ranges 15 PSI and lower on the ST series. Both units are supplied with a PVC cap as standard. The electronic are contained within the housing section located under the electrical termination. The sensor is self contained and not designed for field repair or service.

(See data sheets for outline drawings and series specifications)

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3.0 Installation

3.1 Mechanical

For best performance locate the sensor so that the PVC cap is not in contact with or buried under sludge or other such media. The sensor can be supported by the cable attached to any rigid structure. Do not introduce foreign objects into the ports as this may cause damage. The vent tube filter is suitable protection from humidity but is not submersible.

3.2 Electrical

Units must "see" the proper excitation to perform within specifications. Insufficient power may prevent the unit from providing the full rated output at the full rated pressure. Standard excitation for the ST & STD Series is as follows: ST/STD2 & ST/STD3 – 8 to 38 Vdc (unregulated).

> Model ST/STD2 ST/STD3 4-20 mAdc 2 wire 0-5(10)Vdc 3 wire Output Red, Pin1, Pin A + Power/excit Red, Pin1, Pin A - Power/excit Black, Pin2, Pin B Black, Pin2, Pin B + Signal Green, Pin3 PinC - Signal Common w/black (-Power)

Electrical connections as per below:

Note that electronics can be damaged by electric surges. Surge arresters are suggested for applications where surges are possible. Unit may also need to be mechanically isolated. Electronics should not be exposed to temperatures above 250 deg F. Electrical terminations should be made in a NEMA 4 (or better) enclosure. Care must be taken to prevent migration of fluid into the cable jacket.

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4.0 Operation

After proper electrical connections have been made check for proper output prior to applying pressure. When output is verified apply pressure slowly to avoid pressure spikes or exceeding the 2x FSO pressure rating of the unit. Output will increase with increase in pressure proportional to the applied pressure. Refer to calibration sheet provided with the unit for specific values.

5.0 Calibration

To verify performance sensor should be periodically calibrated against a known source. Pressure can be applied either via a pressure regulated supply or a dead weight tester. Calibration cycles are left to the user's quality system requirements. Annual calibration cycles are common but may need to be adjusted depending on servility of application frequency of use or non standard occurrences such as being exposed to out of range conditions (ex over pressure, temperature or mechanical impact).

6.0 Maintenance

All Dylix pressure sensors are engineered to be maintenance free. To ensure performance contact the factory for any non conforming condition. Do not attempt to open the unit in the field.

7.0 Return

Contact the factory for a Return Authorization Number prior to sending the units in for calibration or repair.

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