

GX & GXR Series

Industrial Pressure Sensor



Installation and Operating Manual

For assistance with the operation of this product contact:  
Dylix Corporation

# Installation and Operating Manual: GX & GXR Series

## 1.0 Introduction

Dylix GX & GXR 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 connections are  $\frac{1}{4}$ "NPT (M) for the GX and  $\frac{1}{4}$ "NPT (F) for the GXR series. 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 if there is a potential of condensate collecting against the diaphragm it is suggested to mount the sensor above the pressure source so that the condensate drains back to the source. The sensor can be supported by connection to rigid metal tubing. Take care to wrench on the wrench flats while holding the sensor in place. Do not over torque so as to avoid damage to the threads. Do not introduce foreign objects into the ports as this may cause damage.

### 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 GX & GXR Series is as follows: GX/GXR1 - 2 to 15 Vdc (regulated), GX/GXR2 & GX/GXR3 – 8 to 38 Vdc (unregulated).

Electrical connections as per below:

Model	GX/GXR1	GX/GXR2	GX/GXR3
Output	mV/Vdc 4 wire	0-5(10)Vdc 3 wire	4-20 mAdc 2 wire
+ Power/excit	Red, Pin1, Pin A	Red, Pin1, Pin A	Red, Pin1, Pin A
- Power/excit	Black, Pin2, Pin B	Black, Pin2, Pin B	
+ Signal	Green, Pin3 PinC	Green, Pin3 PinC	Black, Pin2, Pin B
- Signal	White, Pin4 Pin D	Common w/black (-Power)	

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 and mechanical 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. For units with Zero and Span adjustments field adjustments can be made. Remove zero and span cover screws, adjust zero as needed, against a known pressure source adjust span as needed, verify zero and span re-adjusting as needed, replace cover screws.

## 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 users quality system requirements. Annual calibration cycles are common but may need to be adjusted depending on severity 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.