Request Quote

Dylix Corporation

# Gage/Absolute Pressure Transmitter

## VX Series

### Made for the rigors of aerospace applications

**Design & Application**

The Model VX's novel design provides reliability in aggressive environments where other sensors fail. Its electronics and internal components are designed to withstand the most severe shock and vibration applications to provide the most accuracy, safety and reliability.

Additional EMI/RFI filtering with surge protection further enhances the performance of the VX.

**Manufacturing & Quality for Precision Measurement**

The VX Series is built using an advanced modular assembly process that allows high customization and short delivery times. Automated welding procedures and extreme environmental burn-in give Dylix customers the confidence of long term product reliability.

**Dylix's Customer Service**

Each transducer is delivered with a NIST traceable calibration certificate. Calibration is in accordance with ISA-37-3-1982 (R1995). Annual re-calibration and repair/refurbishment services are available.

### Standard Features

- **≤± 0.1% FSO Static Accuracy**
- **Rugged All-Welded Pressure Cavity**
- **0-50 psi through 0-30,000 psi**

### Optional Features

- **±0.075 & ±0.05 % FSO Static Accuracies**
- **≤± 0.5% FSO Thermal Error Band**
- **Inconel 718, and other alloys for extreme media**
- **Low Power**
- **NEMA 4X**

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

# Specifications: VX Series

## Gage/Absolute Pressure Transmitter

0-50 through 0-30K psi

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

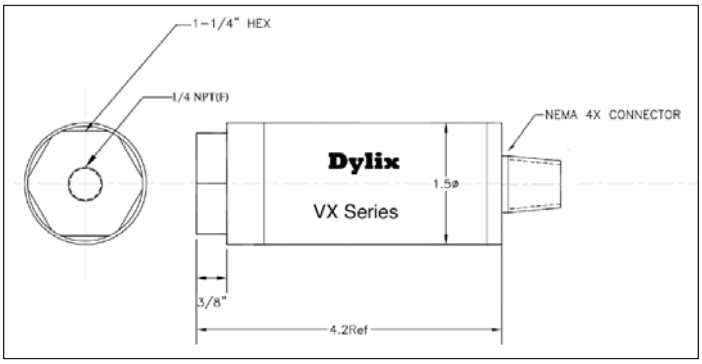
### Electrical

| | |
|---|---|
| **Excitation** | |
| VX1 | 2-15 Vdc |
| VX2, VX3 | 9-36 Vdc* |
| **Output** | |
| VX1 | 1-2 mV/V* |
| VX2 | 0-5 Vdc Isolated* |
| VX3 | 4-20 mAdc |
| **Zero Balance** | ≤±1% FSO |
| **FSO Setting** | ≤±1% FSO |
| **Resolution** | Infinite (± 0.001% FSO usable) |
| **Response Time** | |
| VX1 | < 1 mS |
| VX2, VX3 | < 5 mS |
| **Insulation Resistance** | 1,000 M Ω @ 50 Vdc |
| **Reverse Polarity** | Protected |
| **Warm-up** | < 10 mS |
| **Power Supply Effect** | ≤± 0.002% FSO per V input (VX2, VX3) |
| **EMI/RFI** | Internal Filtering (VX2, VX3) |
| **Short Circuit Protected** | 40 Vdc (VX2, VX3) |

### Mechanical

| | |
|---|---|
| **Pressure Ranges** | 0-50 through 0-30K psi<br>(Customer may specify any range/eng. unit)<br>(Absolute, Vacuum or Compound are available options) |
| **Proof Pressure** | 2X Full Scale* |
| **Burst Pressure** | 5X Full Scale* |
| **Materials** | |
| Wetted Parts | 316 & 17-4 ss* |
| Non-wetted Parts | 316 ss plus electrical connector* |
| **Pressure Port** | ¼" NPT (Female)* |
| **Electrical Connector** | 6 pin (PTIH-10-6P)* |
| **Dimensions** | Per Drawing |
| **Weight** | 15 oz (nominal) |

### Product Dimensions (inches)




### Performance

| | |
|---|---|
| **Static Accuracy** | ≤±0.1% FSO* (BFSL, RSS)*<br>(Combined effects of non-linearity, hysteresis & repeatability) |
| **Repeatability** | ≤±0.05% FSO |
| **Temperature Effects** | ≤±1.5% FSO over comp range*<br>(Combined effects of Zero & FSO with reference at 70° F) |
| **Long Term Stability** | ≤±0.25% FSO per year |

### Environmental

| | |
|---|---|
| **Compensated Temp Range** | 0° to 170° F |
| **Operating Temp Range** | -40° 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 |
|---|---|---|---|---|---|
| VX1 | 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 |
| VX2 | 0-5 (10) Vdc 3 wire | Red/Pin 1/Pin A | Green/Pin 3/Pin C | Black/Pin 2/Pin B | White/Pin 4/Pin D |
| VX3 | 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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