



# XZ2-P PRESSURE TRANSMITTER

A 2 wire loop powered pressure to current transmitter

- High stability electronics
- Surface, DIN rail and explosion proof housing
- 3-15 PSI, e.g. standard input (other option inputs up to 30 PSI, e.g. 3-27 PSI jumper selectable)
- 2 wire loop powered
- 4-20mA or 10-50mA output (optional)

The XZ2-P pressure to current transmitter is designed to accept standard instrument signals in the 3-15 psig range and provides a fully isolated output current signal (4-20mA dc or 10-50mA dc) proportional to the pneumatic signal. The special sensor together with highly stable electronics provides the end user with an exceptionally accurate 2 wire transmitter.

The 12-60Vdc power needed to operate any XZ2-P 2-wire transmitter is obtained from the output current loop and is supplied from the load source or from a separate DC power supply. When installed in the field, the XZ2-P transmitter reduces the requirement for tubing runs and makes pneumatic circuits compatible with central and electronic instrumentation. The recommended output wiring is standard twisted or shielded copper wires.

All XZ2-P transmitters undergo stringent factory tests to ensure their correct specifications. Circuit boards are conformally coated and enclosed in a rugged compact aluminum housing, which can be surface, track or DIN 'G' rail mounted for location in controlled environments. Industrial or explosion proof enclosures are also available for harsh or restricted environments.

## INPUT

### Input Signals:

3-15 psig Standard (20-100KPa) } Field  
3-27 psig Optional (20-185KPa) } Changeable

**Input Media:** Noncorrosive, nonconductive gas

**Input Overrange:** 50 psig maximum

**Input Connection:** 1/4" NPT female (Brass-standard)

**Adjustability:** Zero and span  $\pm 10\%$

## OUTPUT

### Range:

4-20mA dc Standard

10-50mA dc Optional

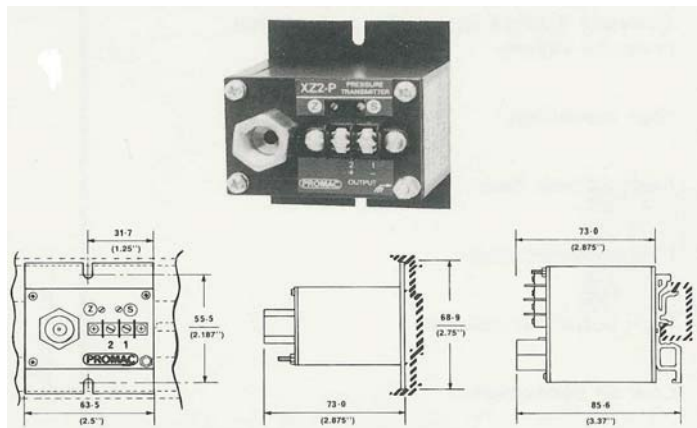
### Output Current Limit:

34mA max. for input overrange (4-20mA)

85mA max. for input overrange (10-50mA)

### Output Protection:

Reverse polarity protected to - 60Vdc



## PERFORMANCE

### Accuracy:

(Max. non Linearity – including Hysteresis & Repeatability)

3 to 15 psig: 0.20% of span

3 to 27 psig: 0.28% of span

**Response Time:** 100 milliseconds to 98%

**Temperature Effect:** (0°C to 60°C)

$\pm 0.023\%$  of span/°C

**Operating Temperature:** - 40°C to 85°C

## POWER

**Power Supply:** 12-60Vdc (max. dissipation 1.2W)

**Supply Voltage Effect:** 0.003% of span/volt

## CLASSIFICATION

(General purpose)

Designed for non-incendive use in Class 1, Div. 2 Groups A, B, C, D and suitable for use in Class II, Div. 2 Group G and Class III, Divs. 1 & 2 Hazardous Areas

## ELECTRICAL OPTION (applicable)

ZO 10-50mA Output

## MOUNTING BRACKET OPTIONS

XM1 Standard surface/Snap-in track

XM2 DIN 'G' rail

XM4 Explosion proof

## ORDER INFORMATION

### Please specify the following:

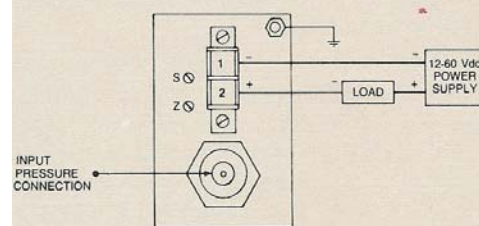
1. Model Number XZ2-P
2. Input range
3. Output range
4. Z options
5. X accessories

### Model No. Examples:

XZ2-P/3-15PSI/4-20/XM1

XZ2-P/3-27PSI/10-50/XM4

## Typical Application Wiring Diagram



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## Represented By:



Specifications are subject to change without notice.

XZ2-P Rev 1/042304