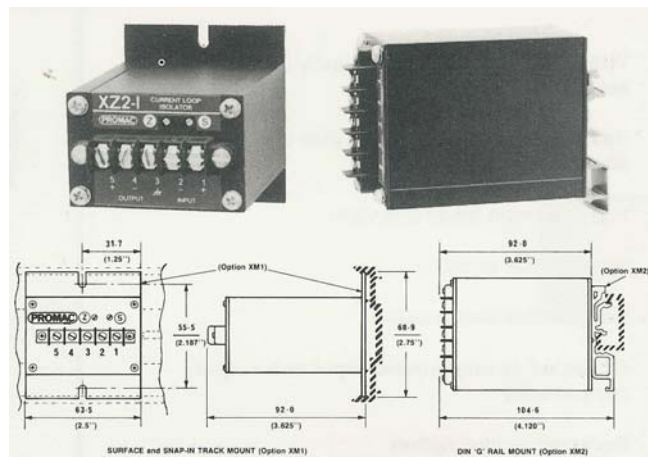




XZ2-I SIGNAL ISOLATOR

A 2 wire DC loop powered signal isolator and converter

- Isolates and converts (Isolation 500Vrms)
- 2 wire-loop powered (reverse polarity protected)
- Interfaces with 4-20mA and 10-50mA signals
- User selectable (jumpers) voltage and current output ranges
- Interfaces with computers (e.g. 4-20mA to 0-10Vdc)
- Versatile mounting (surface, relay track, DIN rail or explosion proof)
- Constant current output for loads from 0 to 250 Ohms (e.g. No recalibration required)



The XZ2-I is an accurate 2 wire transmitter that produces an output current or voltage in direct proportion to the applied input current. The standard input range is 4-20mA with a factory option of 10-50mA. The standard output range is 4-20mA with optional 0-20mA, 0-5V, 1-5V, 0-10V, and 2-10V jumper selectable ranges. A 10-50mA output is available from the factory with the 10-50mA input option. The unit will operate accurately driving loads of up to 250 ohms. The XZ2-I is reverse polarity protected, current limited, and will function accurately under adverse environmental conditions. The XZ2-I is specified to operate over a wide temperature range of -40°C to 85°C.

The power needed to operate any XZ2-I 2-wire isolator is obtained from the input current loop, and is supplied from the source, or a separate DC power supply. The recommended input and output wiring is standard twisted or shielded copper wires.

All XZ2-I 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/OUTPUT

All outputs available with 4-20mA input or factory optional 10-50mA input are field selectable by jumper except option ZO, 10-50mA output.

Input	Output	Drive
4-20mA (10-50mA)	4-20mA	0 to 250 ohms
4-20mA (10-50mA)	0-20mA	0 to 250 ohms
4-20mA (10-50mA)	1-5Vdc	2.5K ohms min.
4-20mA (10-50mA)	0-5Vdc	2.5K ohms min.
4-20mA (10-50mA)	2-10Vdc	5K ohms min.
4-20mA (10-50mA)	0-10Vdc	5K ohms min.
10-50mA	10-50mA	0 to 100 ohms

Protection: Reverse polarity
Current source connection to any 2 terminals will not cause damage

Input Current Limit:

34mA max for input overrange (4-20mA)
85mA max for input overrange (10-50mA)

Load Effect: less than 0.0004% span/ohm,
0 to 250 ohms (4-20mA output)

PERFORMANCE

Accuracy: (Includes non-Linearity, Hysteresis & Repeatability)
±0.1% of span (-40°C to 85°C)

Temperature Effect: (-25°C to 85°C)
<0.01% of span/°C

Operating Temperature: -40°C to 85°C

Response Time: 0.3 sec for 98% change

Common Mode Rejection: Better than 120dB at 60Hz

Adjustability: ±5% for Zero and Span

POWER

Burden: 4-20mA, input; requires 10V max.

@ 20mA for all output ranges

10-50mA input/10-50mA output; requires 12V max.

ISOLATION

Input/Output:

Transformer isolated to 500Vrms
(tested to 1KVrms)

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 OPTIONS (applicable)

ZO 10-50 mA 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-I
2. Input range
3. Output range
4. Z options
5. X options

Model No. Examples:

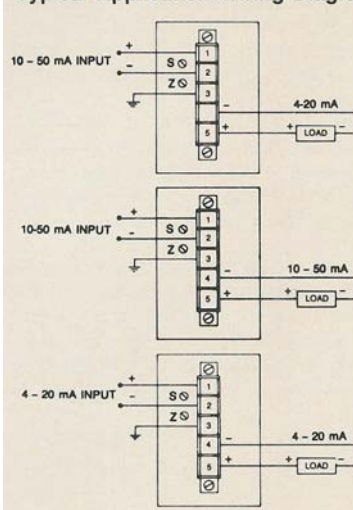
XZ2-I/4-20/4-20/XM1

XZ2-I/10-50/4-20/XM2

XZ2-I/10-50/10-50/XM4

XZ2-I/4-20/0-10V/XM2

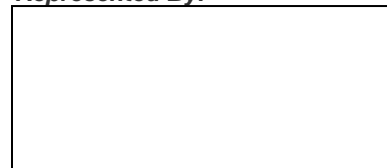
Typical Application Wiring Diagrams



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Specifications are subject to change without notice.