



XZ2-D

DC CURRENT OR VOLTAGE TRANSMITTER

A general purpose fully isolated 2 wire amplifier for signal conversion, biasing and transmission

- 2 wire DC loop powered
- Accepts all standard or special DC voltage or current signals with live or true zero
- 4-20mA or 10-50mA output
- Input-output isolation
- High accuracy
- Use as a signal reverser
- Use as a signal isolator

The XZ2-D DC Current or DC voltage transmitter is designed using highly stable state of the art electronics to accept both DC current and DC voltage inputs and power a fully transformer isolated current output proportional to the input signal. Any input range between 0-150V (and as low as 0-100mV) or 0-5A (and as low as 0-1mA), can be specified for your application. Output ranges are either 4-20mA or 10-50mA.

The 12-60Vdc power needed to operate any XZ2-D 2-wire transmitter is obtained from the output loop current and is supplied from the load source or a separate DC power supply source. The recommended output wiring is standard twisted or shielded copper wires.

All XZ2-D 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) rail mounted for location in controlled environments. Industrial or explosion proof enclosures are also available for harsh or restricted environments.

INPUT

Standard ranges:

DCV: 0-.1, 1.5, 0-10, 0-50, 0-100, 0-150

DCI: 0-1mA, 1-5mA, 4-20mA, 0-20mA, 0-30mA, 10-50mA, 0-1A, 0-5A

Span: 22 turn potentiometer adjustable $\pm 10\%$

Zero: 22 turn potentiometer adjustable $\pm 10\%$

Burden Voltage (current input):

200mV max

Input impedance (voltage input):

100K ohms/Volt min. (10M ohms max.)

OUTPUT

Range: 4-20mA standard (10-50mA optional)

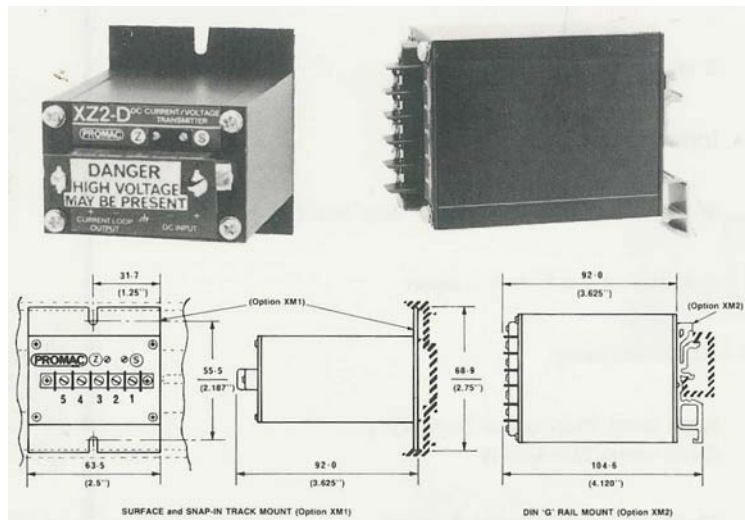
Load Resistance (R_L)

Supply Voltage – 12V

$R_L = 20\text{mA} (50\text{mA})$

Current Limit:

34mA for input overrange (85mA for 10-50mA)



PERFORMANCE

Accuracy: (Linearity & Repeatability)

$\pm 0.1\%$ of span

Temperature Effect: (-20°C to 70°C)

0.1% of span/°C

Operating Temperature: -40°C to 85°C

Response Time: 0.5 seconds for 98% change

Common Mode Rejection:

Better than 120dB at 60Hz

POWER

Range: 12 – 60Vdc (max. dissipation 1.2W)

Supply Voltage Effect:

0.002% of span/volt

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 10-50mA Output

ZJ Reversed 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-D
2. Input range
3. Output range
4. Z options
5. X accessories

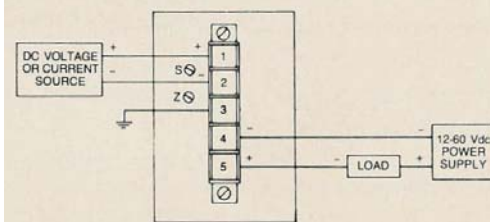
Model No. Examples:

XZ2-D/0-100V/4-20/XM1

XZ2-D/2-5A/10-50/XM2

XZ2-D/0-50V/20-4/ZJ/XM1

Typical Application Wiring Diagram



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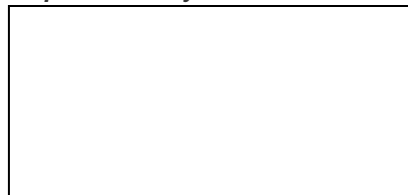
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Represented By:



Specifications are subject to change without notice.

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