

ADM237X Process Signal Transmitter / Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 (IEC61508) safety system loop applications
- Suitable for combinations of process I/V inputs and outputs
- Supply voltage options: 115Vac $\pm 20\%$
230Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty

Technical Specifications

Input

The input active port terminals 1 (+) & 2 (-) include the Excitation loop and thus provides 24Vdc @30mA max power for the 4-20mA two-wire field transmitter.

4-20mA Passive/Sink port connection = 2 (+) & 3 (-)

Analogue Output

Std DC current or voltage options specified in the range of:

Current $\leq 22\text{mA}$ max as std Source configuration (Internal powered)

Voltage any from 0.4V up to 20V max as std.

Typical output range: 4 - 20mA (Source port, max load 1200 Ω)

Current up to 100mA max in Sink configuration (External powered)

Other higher current or voltage output options available on request.

Typical Output

Current: 4-20mA (Source port, max load 1200 Ω)

Voltage 0-10Vdc (min load 500 Ω)

Performance

Accuracy/Linearity: $\leq \pm 0.1\%$ Span

Response time: $< 100\text{ms}$

Supply consumption: $< 3\text{VA}$

Input Open Circuit response: Downscale drive as standard

Protection

Isolation: 1000V RMS Input/Output/Supply/Earth

Internal Fuse

Environmental Conditions

Storage Temperature: -40 to 70°C

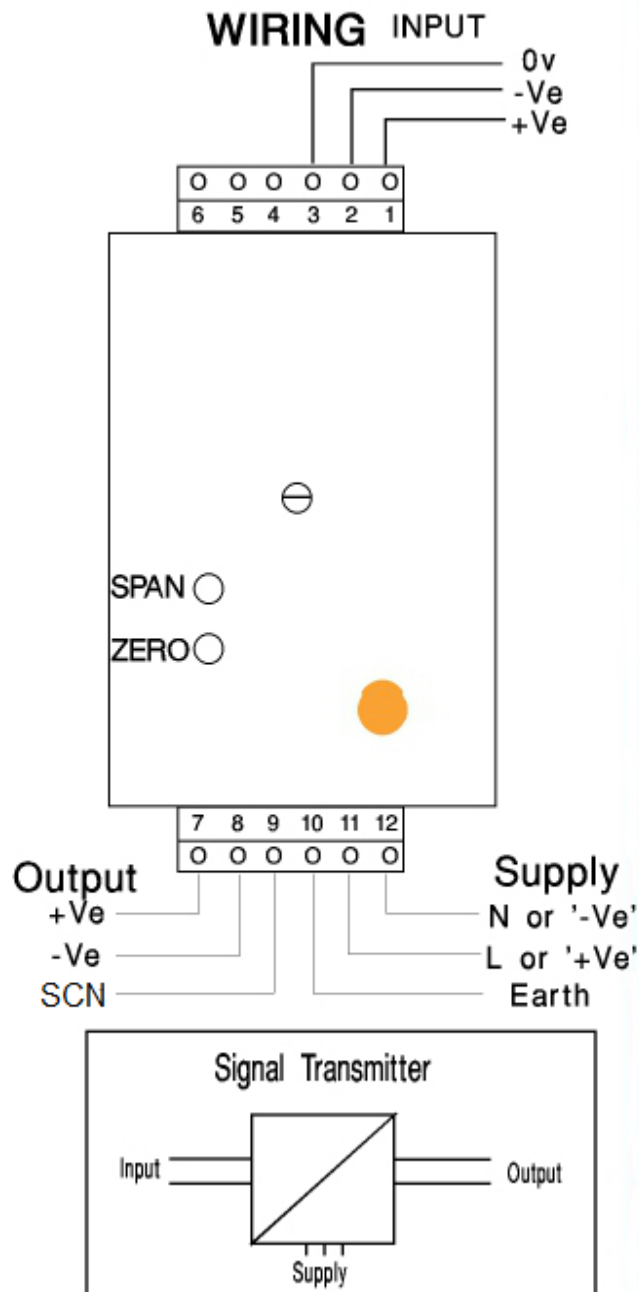
Operating Ambient: -15 to 55°C

Relative Humidity: 5 – 95% RH

Options

J = Input jack for injecting an external Test signal into the input without disturbing the process loop.

DI = A $3\frac{1}{2}$ digit Liquid Crystal Display (LCD) showing the input or output, scaled in units to suit the customer application.



Mounting / Dimensions

DIN Rail (TS35) as standard.

Aluminium extruded Enclosure Dims:

50w x 75h x 145d mm

Surface by seismic keyhole plate (50w x 130h mm) & Front of Panel mounting options also available.

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