

ADM237K Process Signal Transmitter / Isolator

- Non-Smart, Non-uProcessor based instrument (Type A)
- 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 EN 61000-4-3:2006/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

DC current or voltage specified in the range of:

Current: $\leq 22\text{mA}$ max, Source configuration (Internally powered)

Voltage: from 0.4V up to 20V max

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

Typical Output

Current: 4-20mA (Active/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: $< 3\text{VA}$

EMC: 2014/30/EU; EN 61326-1:2013 (Generic Industrial Levels)

Input Open Circuit response: Downscale drive as standard

Protection

Isolation: 500Vdc Input/Output/Supply/Earth

Internal Fuse

RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz-1.75GHz $\leq 40\text{V/m}$)

Environmental Conditions

Storage Temperature: -40 to 70°C

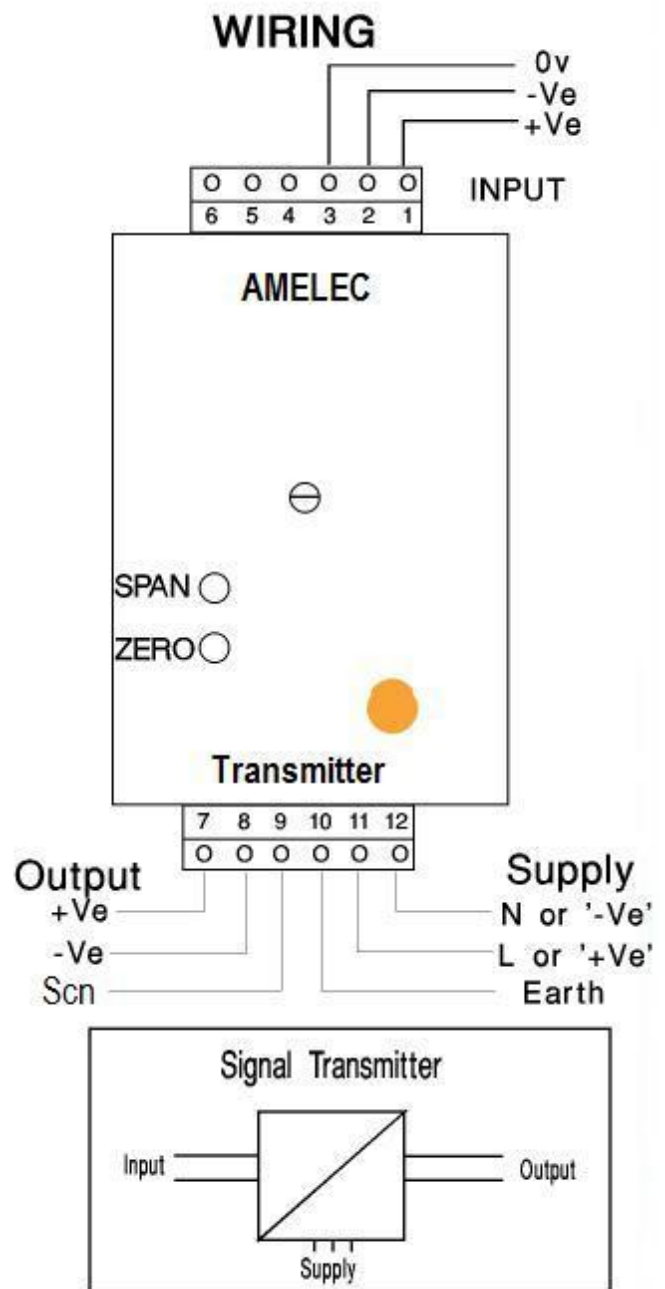
Operating Ambient: -15 to 55°C

Relative Humidity: 5 – 95% RH

Options

J = An input jack for injecting an external signal into the input without disturbing the loop

DI = A 3½ digit Liquid Crystal Display on unit front fascia, showing input or output scaled in units to suit the application.



Mounting/Dimensions

DIN Rail (TS35) as standard

Enclosure Dims: 50w x 75h x 182d mm.

Surface by seismic keyhole plate (50w x 130h mm) & front of panel mounting options also available

Customer connections via screw terminal blocks towards rear of enclosure (Fixed or plug-in optional)

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