

ADM237X-2 (Metal) Process Signal Isolator / Splitter

- Non-Smart, Non-uProcessor based instrument (Type A)
- Suitable for SIL 1, SIL 2 & SIL 3 (EN 61508-2) Safety Instrumented System (SIS) 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 available ('K' option)
- 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 Outputs

DC current or voltage may be specified for each output in the range of:

Current: $\leq 22\text{mA}$ max, Source configuration (Internally powered) or Voltage: from 0.4V up to 10V max, Output1 terminals 7 (+) & 8 (-), Output2 terminals 4 (+) & 5 (-). Current up to 100mA max in Sink configuration (externally powered), Output1 terminals 8 (+) & 9 (-), Output2 terminals 5 (+) & 6 (-).

Performance

Accuracy/Linearity: $\leq \pm 0.1\%$ Span
Response time: $< 100\text{ms}$ (0-100% input step change)
Supply consumption: $< 4\text{VA}$
Input Open Circuit response: Downscale drive as standard

Protection

Isolation: 1000V RMS* Input/Output/Output/Supply/Earth
*(500Vdc when 'K' option specified)

Internal Fuse

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

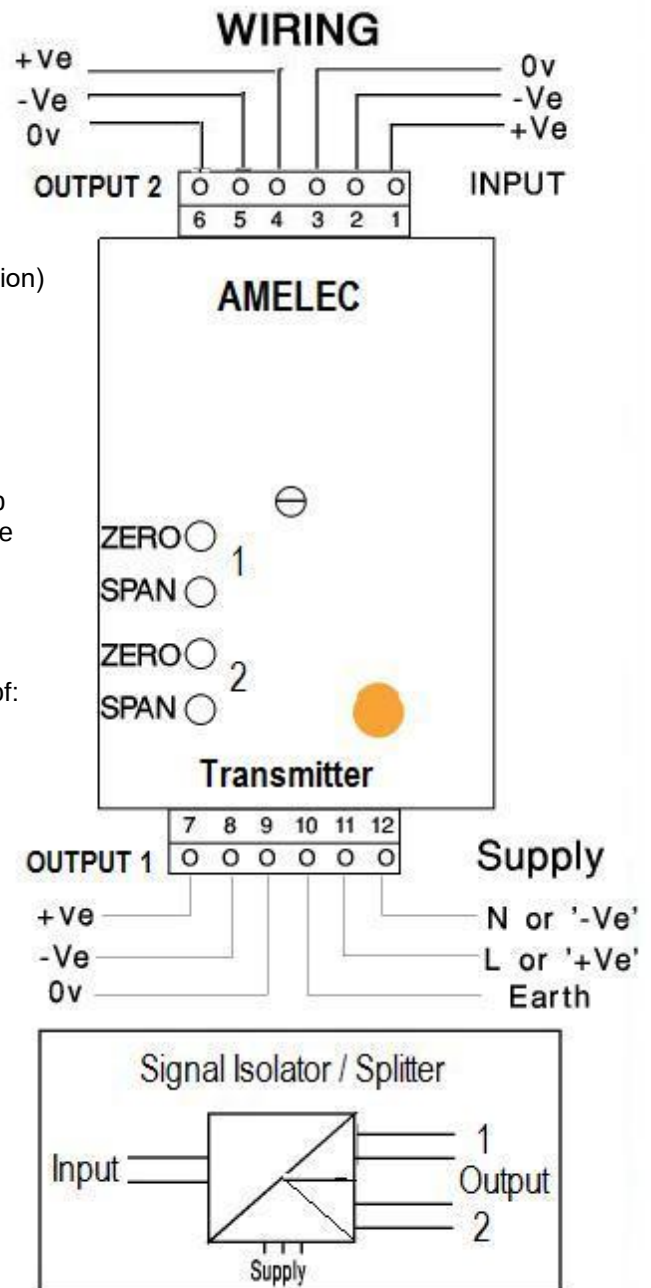
Environmental Conditions

Storage Temperature: -40 to $+70^\circ\text{C}$
Operating Ambient: -15 to $+55^\circ\text{C}$
Relative Humidity: 5 – 95% RH (Non-Condensing)
EMC: 2014/30/EU; EN 61326-1:2013 (Controlled EM)
('K' option to highest EMC/EMI/RFI Generic Industrial Levels)

Options

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

DI = A $3\frac{1}{2}$ 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 145d mm
('K' option = 182d mm enclosure)

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)

Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ