

ADM237X-2X-Metal (21T6409-B) 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 $\pm 10\%$
 - 18-36Vdc
- 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 @22mA 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: up to 22mA max, Source configuration (Internally powered) or
 Voltage: 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: $< \pm 0.1\%$ 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/Output1/Output2/Supply/Earth
 *(500Vdc when 'K' option specified)

Internal Fuse

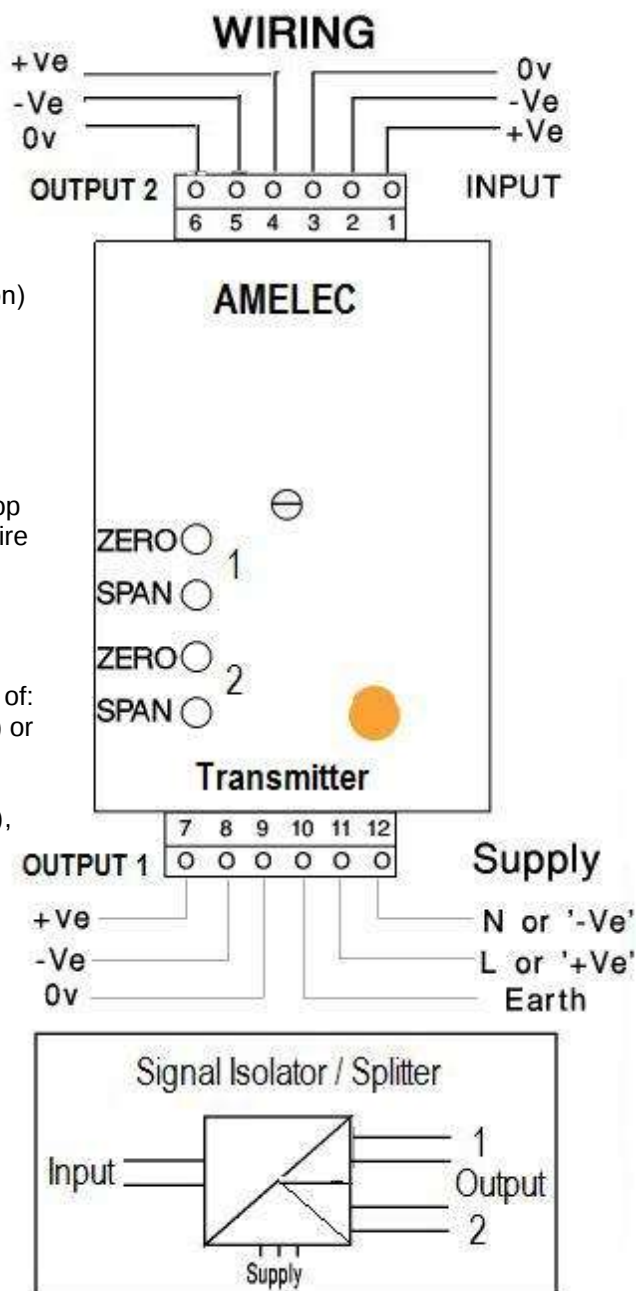
('K' option RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
 80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz/1.75GHz $\leq 40\text{V/m}$)

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

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.
X =



Mounting/Dimensions

DIN Rail (TS35) as standard.
 Alocrom1200 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)

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