

## ADM237XKX-2 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:  
18-36Vdc  
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 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:  $< \pm 0.1\%$  Span  
Response time:  $< 100\text{ms}$  (0-100% input step change)  
Supply consumption:  $< 140\text{mA}$   
Input Open Circuit response: Downscale drive as standard

#### Protection

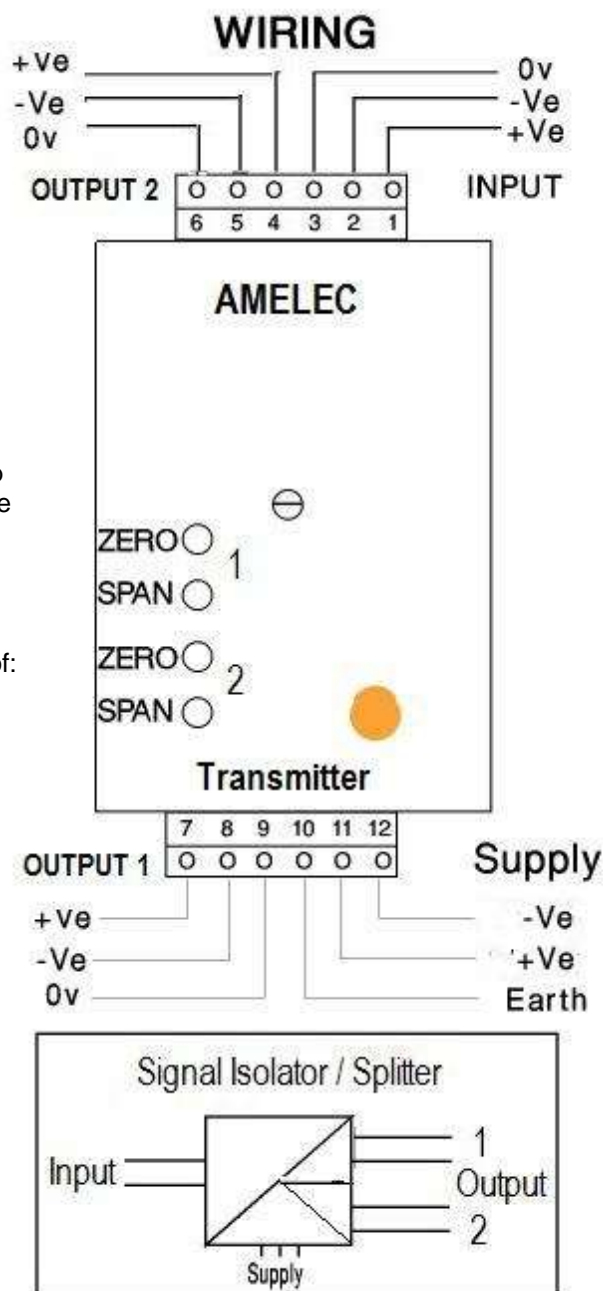
Isolation: 1000V RMS Input/Output/Output/Supply  
(500Vdc Any Port to Earth)  
Internal Fuse  
RF Immunity: 20MHz-3GHz/5.25GHz  $\leq 10\text{V/m}$ ,  
(80MHz-1GHz/5.6GHz  $\leq 30\text{V/m}$ , 889MHz/1.75GHz  $\leq 40\text{V/m}$ )

#### Environmental Conditions

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

#### Options

DI = A 3½ digit LCD or 4 digit Red LED Display on unit front fascia, showing input signal scaled as either 0-100.0 % or in Engineering 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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