

# ADM251K AC Signal Transmitter / Isolator with Dual Output

 Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, HFT:0

Supply voltages: 115Vac ±20% 240Vac ±20% 24Vdc ±2.5V 48Vdc ±5V

- RFI Protection to EN 61000-4-3:2006/A2:2010
- Non Smart / Non-uProcessor, Type A instrument
- AMELEC Standard 10 year warranty

## **APPLICATION**

 Any application where AC voltage or current signals need to be converted/isolated, split and re-transmitted.

#### **TECHNICAL SPECIFICATION**

## **INPUT**

# Any Sinusoidal AC voltage or current signal can be specified, in the range of:

Current up to 200mA max (Passive) or Voltage up to 100V max as std. Frequency range from 10Hz to 400Hz as std.(Higher freq, current or voltage input options also available)

## OUTPUTS

DC current or voltage specified in the range of:

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

Current up 22mA max Source configuration (Internally powered)

Voltage: any range up to 20Vdc max may be specified. Typical output range:  $2 \times 4 - 20mA$  (Active,  $\leq 550\Omega$  loads)

## **CONTROLS**

15-turn potentiometers for each output channel. Zero ± 25% Span ± 50%

## **INDICATOR**

Power ON: LED, Amber.

## **PERFORMANCE**

Linearity: < ±0.1% span

Response time: typically < 200mS (0-100% step change)

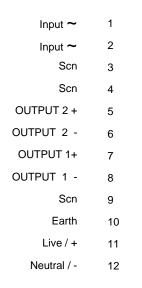
Accuracy: < ±0.1% span

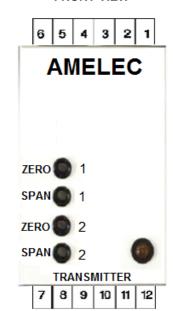
Supply regulation: AC supply ± 20%, DC supply ± 10%

Supply consumption: <3VA

## TERMINATION

## **FRONT VIEW**





## **ENVIRONMENTAL CONDITION**

Storage temperature: -40 to +70 ℃ Operating Ambient: -15 to +55 ℃

Relative Humidity: 5 to 95% RH (Non-Condensing) EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial

Levels)

## **MOUNTING / DIMENSION**

Enclosure: 50w x 75h x 182d mm Mounting: Din Rail (TS35) as std

(optional Seismic/Surface Keyhole plate, 50w x 130h mm) Weight <500g (Plug-in screw terminals option also available)

## **RF IMMUNITY**

20MHz-3GHz/5.25GHz  $\leq$ 10V/m, 80MHz-1GHz/5.6GHz  $\leq$ 30V/m, 889MHz/1.75GHz  $\leq$ 40V/m .

## **PROTECTION**

Isolation: 500Vdc: Input/Output/Output/Supply/Earth.

Internal Fuse.

Input over range: typically up to 300%.

Input Open Circuit response: Downscale drive as std

(O/C Upscale drive option 'X' available)

IP Rating: IP20

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