

# **ADM210X Thermocouple to RTD Converter**

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0)
- Non-Smart/Non-uProcessor based, Type 'A' instrument
- Supply voltage options: 115Vac ±20%
  - 240Vac ±20% 24Vdc ±10%
  - 48Vdc ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

# **Technical Specifications**

#### <u>Input</u>

Any signal developed from a thermocouple, with  $\geq$ 4mV span. Typical input: 0-150°C type T, 0-250°C type K, 0-200°C type J, with Automatic cold junction compensation fitted as standard.

#### <u>Output</u>

Equivalent mV to simulate RTD for the same temperature range. RTD extension wire to be used between the output terminals & the remote RTD monitoring system/ control device input port. Bulb Excitation current from the RTD device connected needs to be determined (*a simple test procedure is available if unknown*). Typical output: 0-150°C PT100 RTD, 0-250°C PT1000 RTD

## Performance

Accuracy/Linearity: <±0.1% mV Span Response Time: typically <200mS Supply consumption: <3VA

#### Environmental Conditions

Storage Temperature:-40 to 70°COperating Ambient:-15 to 55°CRelative Humidity:5 – 95 RHEMC:2014/30/EU , EN 61326-1:2013 (controlled EM)('K' option to the highest Generic Industrial levels)

## Protection

Isolation: 1000V RMS\*.Input/Output/Supply/Earth \*(500Vdc if RFI option 'K' is specified) Internal Fuse Input O/C response: Upscale or Downscale drive *(TBA)* 

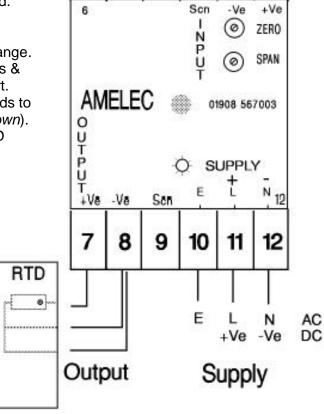
## Mounting

TS35 Din Rail or Surface by corner fixing holes ('K' option: TS35 Rail or Surface by seismic keyhole plate)

## **Enclosure Dimensions**

 $50w \times 75h \times 110d mm$ ('K option enclosure =  $50w \times 75h \times 182d mm$ )





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WIRING

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Input

Scrn

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