ADM210X Thermocouple to RTD Converter

- Suitable for SIL 1 & SIL 2 rated (IEC61508) safety system loop applications, as 1oo1 architecture (HFT:0)
- Suitable for BS4937 Thermocouple inputs
- Supply voltage options: 115Vac ±20%
  240Vac ±20%
  24Vdc ±10%
  48Vdc ±10%
- RFI Protection to IEC61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input
Any signal developed from a thermocouple, with ≥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.

Output
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

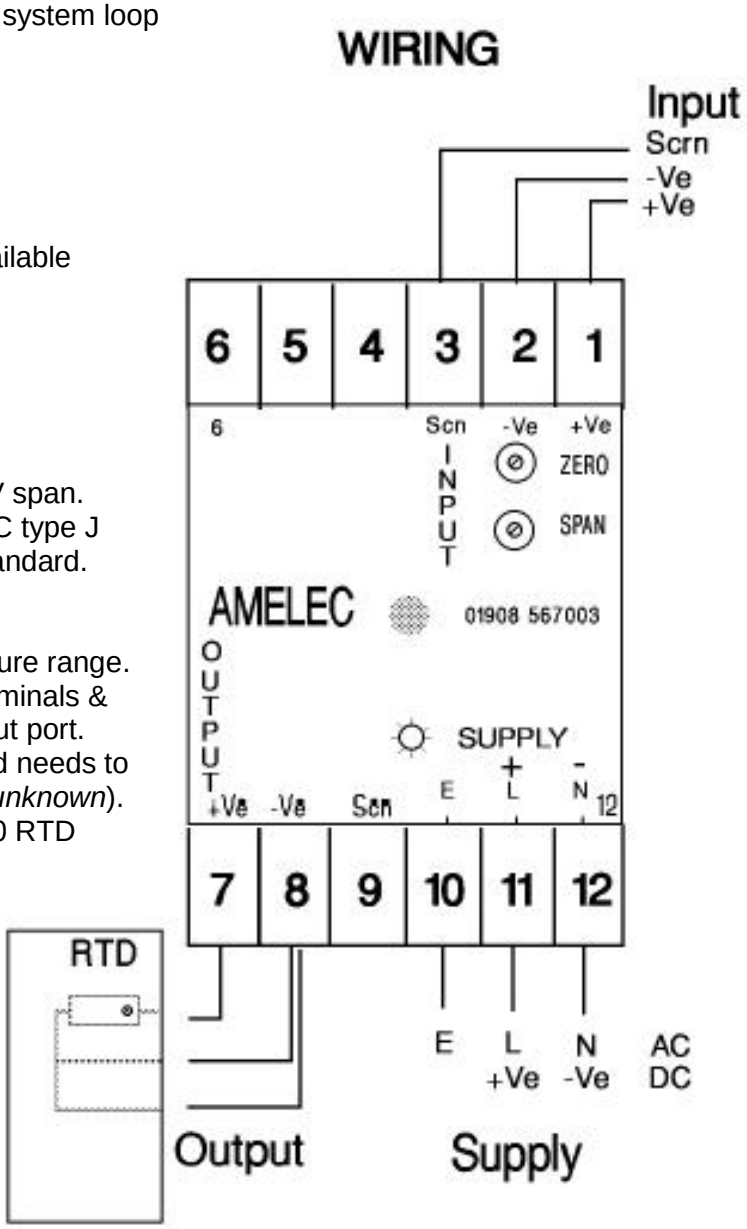
Performance
Accuracy/Linearity: <±0.1% mV Span
Response Time: typically <200mS
Supply consumption: <3VA

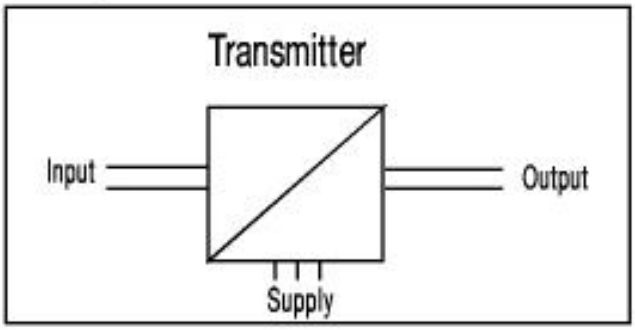
Environmental Conditions
Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95 RH

Protection
Isolation: 1000V RMS*.Input/Output/Supply/Earth
*(500Vdc if RFI option 'K' is specified)
Internal Fuse
Input over range: up to typically 300%
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 x 75h x 110d mm
('K option enclosure = 50w x 75h x 182d mm)





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