

ADM211X Thermocouple Repeater / Splitter with Isolated Outputs

- Suitable for use in SIL 1 & SIL 2 rated (IEC61508) safety system loop applications (1001 architecture, HFT: 0)
- Supply voltage: Universal 95Vac-250Vac as standard Other options: 24Vdc ±10% or 48Vdc ±10%, 115Vac ±20% or 230Vac ±20%
- Amelec standard 10 year warranty

APPLICATION

- mV Repeat / Signal Splitter for new additional equipment
- Signal Isolator / Booster / Noise filter
- · Signal converter to resolve incompatibility.

TECHNICAL SPECIFICATION

INPUT

mV signal from any Thermocouple type; J, K, N, R, S or T, with a minimum 4mV span.

Typical Input: 0-1000°C Type K, 0-250°C Type J, 0-600°C Type N, 0-800°C Type R

Automatic cold junction compensation fitted as standard

OUTPUTS

2 x Isolated straight through repeat of input signal with automatic cold junction compensation. (T/C extension wire to be used between outputs & the temperature monitoring system/control devices input ports)

CALIBRATION CONTROLS

Zero / Span (+/- 20%): 15 turn potentiometers for output

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: < ±0.2%

Response time:: Typically < 400mS Accuracy: < ±0.1% mV span

Supply Regulation: DC ±10%, AC ±20%,

Supply Consumption: 3VA

Input O/C response: Upscale drive as standard

(Downscale drive available upon request)

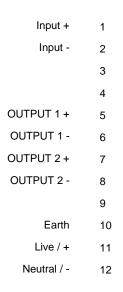
PROTECTION

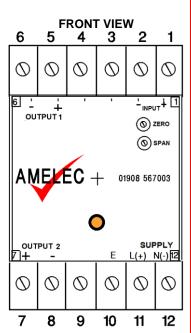
Isolation: 1000V RMS* Input/Output1/Output 2/Supply/Earth *(500Vdc when 'K' option RFI protection is specified)

Internal Fuse.

Input over range up to typically 300%.

TERMINATION





ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70 ℃

Operating Ambient: -15 to +55 °C

Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d mm ('K' option = 182d mm)

Mounting: Din rail (TS35) or Surface by corner fixing holes

Weight < 300g

ADD ON / OPTIONS

DI: LCD display for local monitoring

J : Input injection jack socket

P: Test point

K: High level of RFI protection: IEC61000-4-3:2006/A2:2010 (20MHz-3GHz/5.25GHz ≤10V/m, 80MHz-1GHz/5.6GHz ≤30V/m) Non standard Power supply & Output ranges available

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