

ADM211X Thermocouple Transmitter / Repeater / Splitter

- Suitable for use in SIL 1 & SIL 2 rated (EN 61508) safety system loop applications, as 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.

Automatic cold junction compensation fitted as standard

OUTPUT 1

Non-Isolated straight through repeat of input signal with automatic cold junction compensation. (T/C extension wire to be used between o/p1 & the original temperature monitoring system/control device input port)

OUTPUT 2

Current: up to 22mA max in std Source configuration (100mA max in optional Sink port configuration) Voltage: any from 0.4 to 10Vdc max as std. Isolated mV repeat of input signal for additional monitoring available. Typically:4-20mA (max load 550Ω) or 0-10Vdc (min load 500Ω)

CALIBRATION CONTROLS

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

INDICATOR

Power ON: LED, Amber.

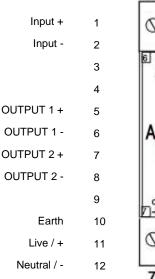
PERFORMANCE

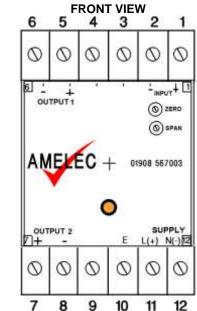
Accuracy/Linearity: < ±0.1% mV span Response time: Typically < 400mS

PROTECTION

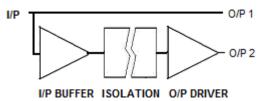
Isolation:1000V RMS* (Input+Output1)/Output 2/Supply/Earth *(500Vdc when 'k' option is specified) Internal Fuse. Input over range: up to 300%.

TERMINATION





FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

Storage temperature:- 40 to +70 °COperating Ambient:-15 to +55 °CRelative Humidity:5 to 95% RH (Non-Condensing)EMC: 2014/30/EU, EN61326-1: 2013 (Controlled EM)('K' option to the highest Generic Industrial levels)

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
- Non standard i ower supply & Output ranges avai