

ADM211K Thermocouple Transmitter with Dual Outputs

- Suitable for SIL 1, 2 or 3 rated safety loop applications (IEC61508-2)
- Supply voltages: 115Vac $\pm 20\%$
230Vac $\pm 20\%$
24Vdc $\pm 2.5V$
48Vdc $\pm 5V$
- RFI Protection to IEC61000-4-3 (<10V/m)
- AMELEC Standard 10 year warranty
- Digital Indication available

TECHNICAL SPECIFICATION

INPUT

Any signal developed from a thermocouple greater than 4mV. Automatic cold junction compensation fitted as standard.

OUTPUT

DC current or voltage specified in the range of:
Current up to 100mA max in optional Sink configuration (externally powered)

Current up to 22mA max in std. Source configuration (Internally powered)
Voltage any from 0.4 to 20V max @ up to 5mA per output.
Typical output range: 4 - 20mA (Source)

CONTROLS

15 turn potentiometers.
Zero $\pm 25\%$
Span $\pm 50\%$

INDICATOR

PowerON: LED, Amber.

PERFORMANCE

Linearity: < $\pm 0.1\%$
Response time: Typically < 200mS
Accuracy: < $\pm 0.1\%$
Supply regulation: $\pm 20\%$
Supply consumption: < 2VA

PROTECTION

Isolation 500V DC: IP/OP/OP/Supply/Earth
Internal Fuse.
Input over range up to typically 300%.

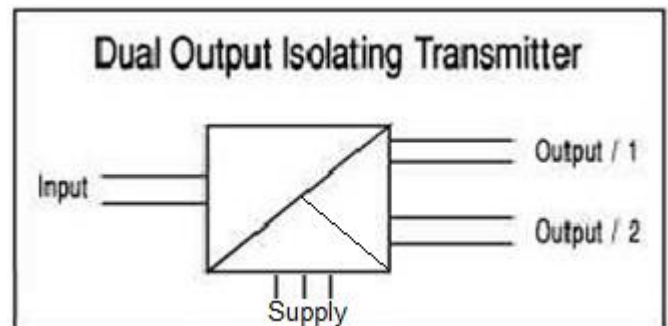
TERMINATION

Input +	1
Input -	2
Scn	3
Scn	4
OUTPUT 2 +	5
OUTPUT 2 -	6
OUTPUT 1+	7
OUTPUT 1 -	8
Scn	9
Earth	10
Live / +	11
Neutral / -	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50 (W) x 75 (H) x 182 (D) – mm
Mounting: Heavy duty Din Rail as standard.
(Surface by Seismic key hole plate option available)

RFI Protection

Maximum 1% error when subject to 10V/m RF field in the frequency range from 20 to 1000MHz.