

ADM212 (BI)(V)(L)(X)(K) Thermocouple Trip Transmitter

- 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 instrument (Type A)
- Supply voltage options: 115Vac ±20%
 - 240Vac ±20% 24Vdc ±10% 48Vdc ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 optional ('K')
- Non-isolated Output repeat of the Thermocouple input optional ('X')
- Front fascia digital Display of the Input & Trip set point optional ('DI')
- AMELEC Standard 10 year warranty

Technical Specifications

<u>Input</u>

mV signal developed from any Thermocouple, Temperature \geq 4mV span E.g: 0-1000°C Type K, 0-250°C Type J, 0-600°C Type N, With automatic cold junction compensation as std.

Analogue Output

Any standard process current or voltage signal. Current source up to 20mA with Drive voltage 11Vdc. Current sink up to 20mA, with max External Drive \leq 30Vdc. Voltage source up to 10V, max current 20mA.

Trip Output

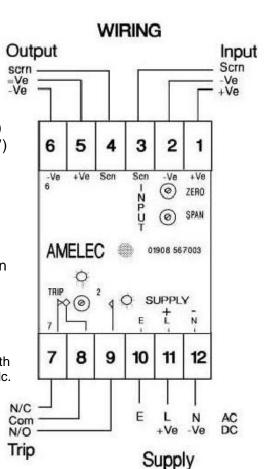
A set of single pole changeover contacts, rated at 250VAC, 3A, 100VA (resistive). Latching relay option ('L') available with Local or Remote Reset. Red LED indication of Relay status, ON Energised / Extinguished in Trip De-energised state as standard. (Red/Green Bi-colour LED optional – 'BI')

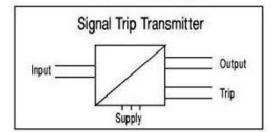
Performance

Isolation: 1000V RMS*. Input/Output/Contacts/Supply/Earth *(500Vdc when RFI protection option 'K' is specified) Accuracy/Linearity: ±0.1% Trip settability: ±1% Trip repeatability: ±0.1% Deadband: 1% span as std (adjustable 1-20% span optional 'V') Response time: <400mS as std (0-100% input step change) Supply consumption: <3VA Input O/C response: Up or Downscale drive may be specified Fail Safe Relays: De-energise on Trip & Loss of Power as std

Environmental Conditions

Storage Temperature:-40 to +70°COperating Ambient:-15 to +55°CRelative Humidity:5 – 95% RH (Non-Condensing)EMC:2014/30/EU , EN 61326-1:2013 (Controlled EM)('K' option to the highest EMC/EMI/RFI Generic Industrial levels)





Mounting/Dimensions

DIN Rail (TS35) or Surface by corner fixing holes as standard

Enclosure Dimensions: 50w x 75h x 110d mm. ('DI' option enclosure = 146d, 'K' option = 182d mm)

Tel: 01908-567003 Email: <u>sales@amelec-uk.com</u> Visit: <u>www.amelec-uk.com</u> Fax: 01908-566735 AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ