

ADM216 (Metal) Thermocouple Signal Trip-Transmitter

- Suitable for SIL 1 & SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available (;K; option)
- Non Smart / Non-uProcessor based, Type A instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any mV signal developed from a thermocouple type; B, J, K, N, R, S or T, with a minimum 4mV span.
(Automatic cold junction compensation fitted as standard)

Analogue Output

Any standard process current or voltage
Current source up to 20mA. Drive voltage 11Vdc
Current sink up to 20mA. External drive max 30Vdc
Voltage source up to 10V. Max current 20mA

Typical Output options

4-20mA (Source, max load 550 Ω), 0-10Vdc (min load 500 Ω)

Relay Outputs

Each Trip output is a set of S.P.C.O contacts, rated at 250VAC, 2A, 100VA (resistive)

Red LED status indicators **ON** Energised, **Extinguished** in Trip/**De-energised** state as std.

Performance

Isolation: 1000Vrms^ Input/Output/Contacts/Contacts/Supply/Earth
*(500Vdc when 'K' option specified)

Accuracy/Linearity: $\leq \pm 0.1\%$ mV span as std

Response Time: $< 200\text{ms}$ (10-90% input step change)

Input O/C response: Up or Downscale drive may be specified

Relays Fail safe: De-energise on Trip & Loss of power as std

Environmental Conditions

Storage Temperature: -40 to +70°C

Operating Ambient: -15 to +55°C

Relative Humidity: 5 – 95% RH (Non-Condensing)

EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)^

^(K' option to highest Generic Industrial levels, incl. RF Immunity:-

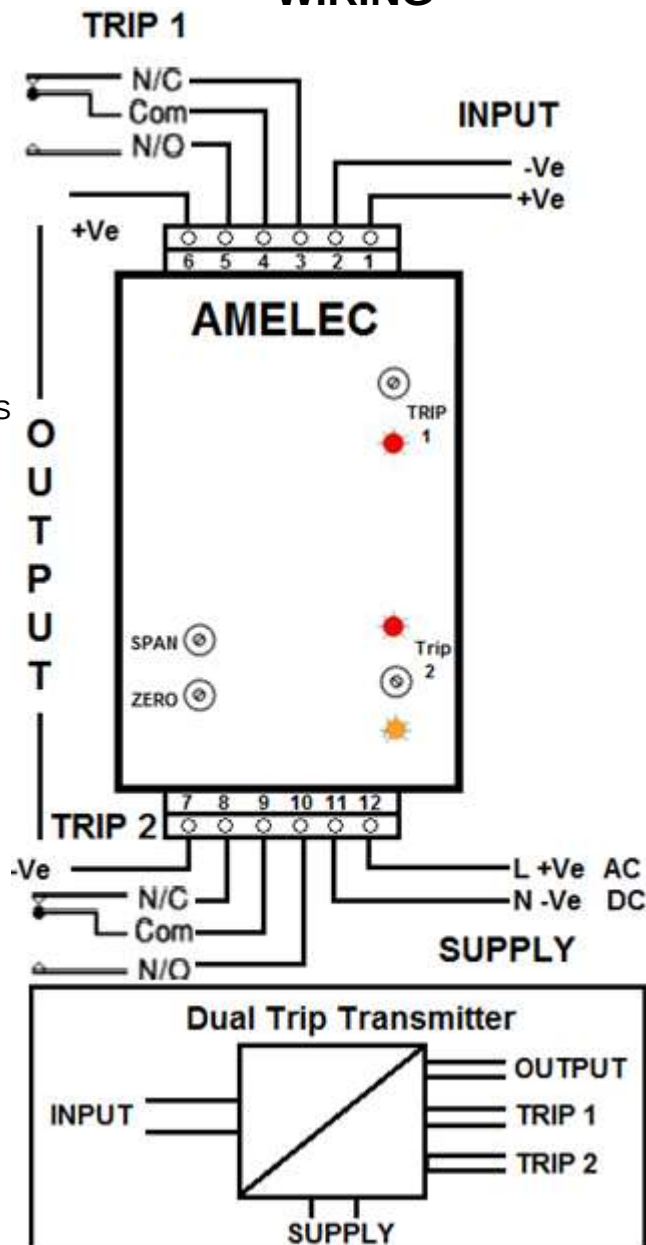
20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$, 80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$,

889MHz/1.75GHz $\leq 40\text{V/m}$)

Additional Options available

- Linearisation to Temperature ('G' Option)
- LCD or LED Digital Display on front fascia (DI Option)

WIRING



Enclosure Dimensions

50w x 75h x 145d mm

('K' option enclosure = 182d mm)

Customer Termination

Fixed screw terminals std (Plug-in terminals optional)

Mounting

DIN Rail (TS35) as std. Surface by seismic Keyhole plate & Front of Panel mounting options also available. (optional rear Keyhole mounting plate: 50w 130h mm)

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