

ADM216 Thermocouple Trip Transmitter / Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 available, ('K' option) with RF immunity over 80MHz-1GHz/5.6GHz $\leq 30V/m$
- Suitable for any Thermocouple Input types: B, J, K, N, R, S or T
- Supply voltage options:
 - 115Vac $\pm 20\%$
 - (with Amber LED 'ON' indicator) 240Vac $\pm 20\%$
 - 24Vdc $\pm 10\%$
 - 48Vdc $\pm 10\%$
- Digital Display ('DI' option) available to show input / set points
- AMELEC Standard 10 Year warranty

Technical Specifications

Input

mV signal developed from **any thermocouple**, $\geq 4mV$ span
 E.g: 0-1000°C Type K, 0-250°C Type J, 0-600°C Type N
 Automatic Cold Junction compensation provided as std.

Isolated Analogue Output

Any standard process current or voltage (DC) available
 Current source up to 20mA, Drive voltage 11Vdc
 Current sink up to 20mA, 30Vdc max external drive
 Voltage source up to 10Vdc. Max current 20mA

Typical Output options

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

Accuracy/Linearity:

$< \pm 0.1\%$ mV span as std
 Output Linearised to temperature available (option 'G')

High / Low combination Trip Outputs

Each relay has a set of S.P.C.O contacts, rated at 250Vac, 2A, 100VA (resistive)
 High Trip option(s): Relay De-energises Above set point(s)
 Low Trip option(s): Relay De-energises Below set point(s)
 Red LED relay Status indicators (each **ON** Energised/healthy, each **Extinguished** in Trip/ De-energised state).

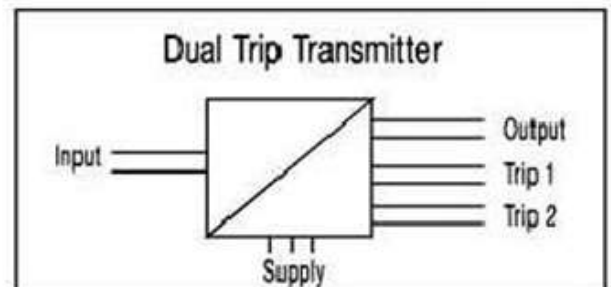
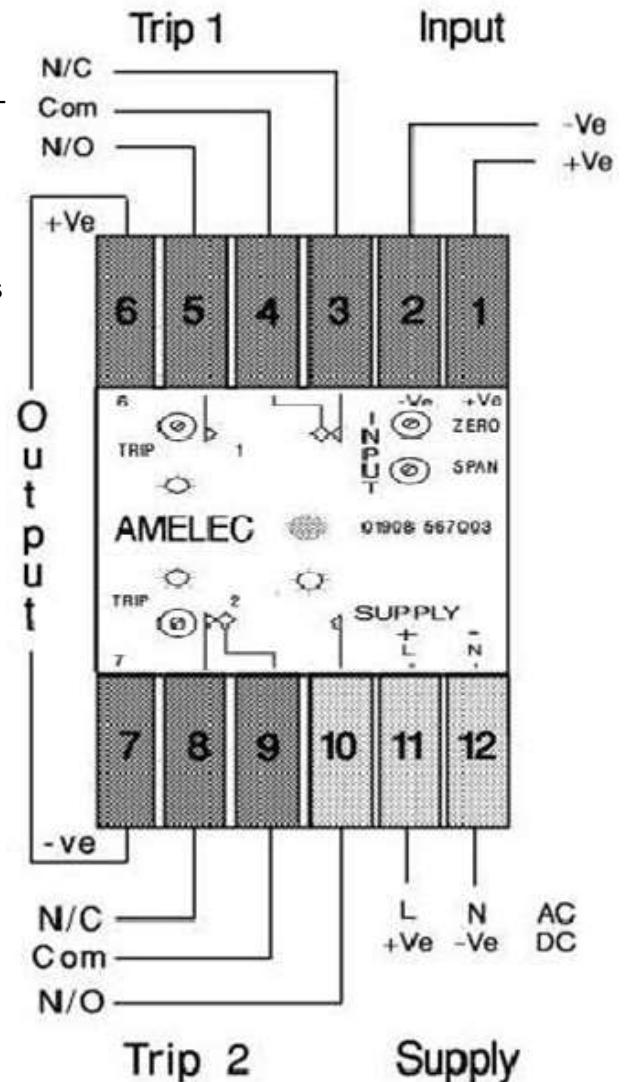
Isolation

1000V RMS* Input/Output/Contacts/Contacts/Supply/Earth
 *(500Vdc if RFI option 'K' is specified)

Environmental Conditions

Storage Temperature: -40 to +70°C
 Operating Ambient: -15 to +55°C
 Relative Humidity: 5 to 95% RH (Non-Condensing)
 EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)

WIRING



Mounting: Either Din Rail (TS35) **or** Surface by corner fixing holes as std.

Dimensions: 50w x 75h x 110d mm as std.
 ('DI' option enclosure =145d mm)
 ('K' option enclosure =182d mm)

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