

ADM216GX2 Thermocouple Trip Transmitter

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Suitable for any Thermocouple input types: J, K, N, R, S or T
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- Non-Smart/Non-uProcessor based, Type A instrument
- AMELEC Standard 10 year warranty

Performance (Span 0-1000°C)

Output non-linearity: $\pm 2^\circ\text{C}$
Trip repeatability: $\pm 0.1\%$
Response time: $< 400\text{ms}$

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: $5 - 95\%$ RH
EMC: 2014/30/EU, EN 61326-1:2013

Technical Specifications

Input

Any signal developed from a thermocouple, with greater than 4mV span.
Automatic Cold Junction compensation provided as standard.

Isolated Analogue Output, Linearised to input Temperature

Any standard process current or voltage range may be specified
Current source up to 20mA. Drive voltage 20Vdc
Voltage source up to 10V. Max current 20mA.

Isolated Relay Contact Outputs

For High/Rising Temperature trip applications;
Each trip Relay will change state/ De-energise as the input rises through it's trip point set, and return to healthy/ Energised state when the input temperature falls back 1% of span below the set point.
Trip 1: Relay D.P.C.O. rated 240Vac, 2A 100VA resistive.
Trip 2: 1 x D.P.C.O + 1 x S.P.C.O Relay, rated 240Vac, 2A 100Va resistive
Input Open Circuit response: Upscale drive / Relays De-energise
Red LED indication of each relay status: ON Energised,
(Extinguish in Trip / De-energised state)
Trip relays fail safe: Relays De-energise on Trip & Loss of power supply

Isolation (1KV RMS)

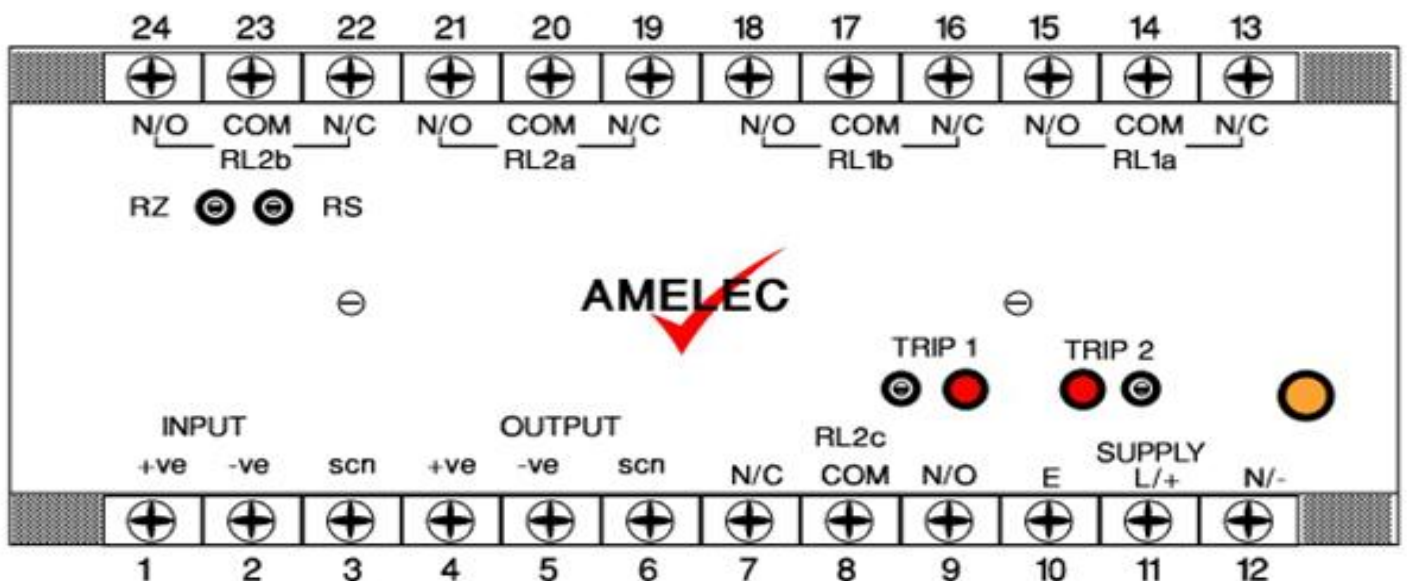
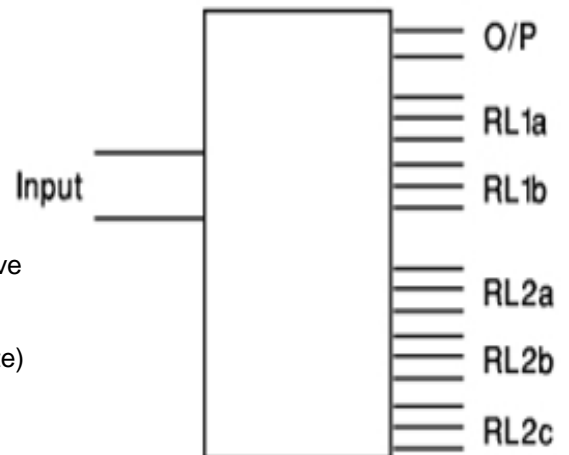
Input/Output/Contacts/Supply/Earth

Mounting / Dimensions

Din Rail (TS35)

Enclosure: 152w x 81h x 137d mm

T.C Trip Transmitter



Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ