

# ADM216GX / GX1 Thermocouple Trip Transmitter / Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0)
- Suitable for any Thermocouple input types: J, K, N, R, S or T

• Supply voltage options: 115Vac ±20% 240Vac ±20%

24Vdc ±10% 48Vdc ±10%

- Non-Smart/Non-uProcessor based, Type A instrument
- AMELEC Standard 10 year warranty

## **Technical Specification**

#### <u>Input</u>

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

### <u>Isolated Analogue Output, Linearised to input Temperature</u>

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.

Relays: D.P.C.O. rated 240Vac, 2A 100VA resistive Fail Safe: De-energise on Trip & for Loss of power

Input Open Circuit response: Upscale drive / Relays De-energise

Red LED indication of each relay status: ON Energrised,

Extinguish in Trip / De-energised state

## Performance (up to1200°C range)

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

#### **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

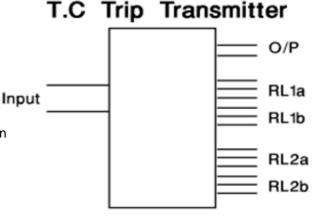
#### Isolation (1KV RMS)

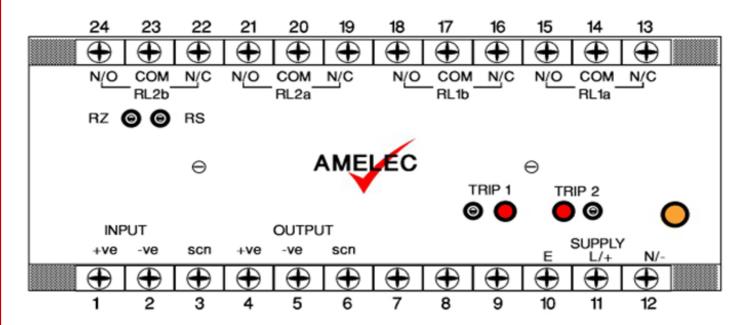
Input/Output/Contacts/Contacts/Supply/Earth

## Mounting / Dimensions

Din Rail (TS35)

Enclosure: 152w x 81h x 137d mm





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