

ADM216GX / GX1 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)
- 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 (up to 1200°C range)

Output non-linearity: $\leq \pm 2^\circ\text{C}$
 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: $5 - 95\% \text{ RH}$
 EMC: 2014/30/EU, EN 61326-1:2013

Technical Specification

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 its 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 Energised,
 Extinguish in Trip / De-energised state

Isolation (1KV RMS)

Input/Output/Contacts/Contacts/Supply/Earth

Mounting / Dimensions

Din Rail (TS35)
 Enclosure: 152w x 81h x 137d mm

T.C Trip Transmitter

