

ADM212X-TC Thermocouple Trip Transmitter / Repeater

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) Safety Instrumented System 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 EN61000-4-3:2006/A2:2010 available ('K' option)
- Digital Display option available ('DI' option, 3.5 digit LCD as std)
- Non-Smart / Non-uProcessor based, Type A instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Input

mV signal developed from any thermocouple, $\geq 4\text{mV}$ span.
E.g: 0-1000°C Type K, 0-250°C Type J, 0-600°C Type N,
With automatic cold junction compensation as std.

Output

Non-Isolated repeat of input signal with automatic cold junction compensation

(T/C extension wire to be used between o/p1 & the original temperature monitoring system/ control device input port)

High or Low Trip Output

Changeover contacts, rated at 250Vac, 2A, 100VA (resistive)
High Trip option: Relay De-energises above set point
Low Trip option: Relay De-energises below set point
Red LED relay Status indicator (Extinguished when De-energised)
Deadband: nom 1% span hysteresis as std
Variable 1-20% span hysteresis available ('V' option)
Latching relay available ('L' option), with front fascia reset button

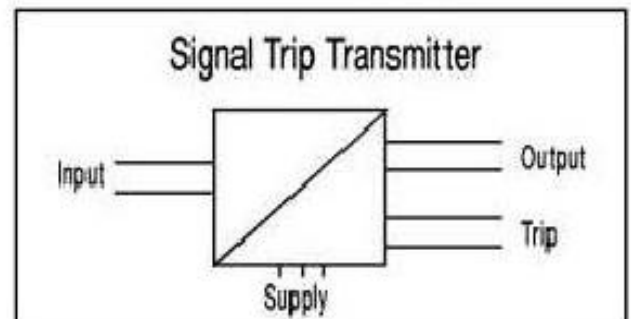
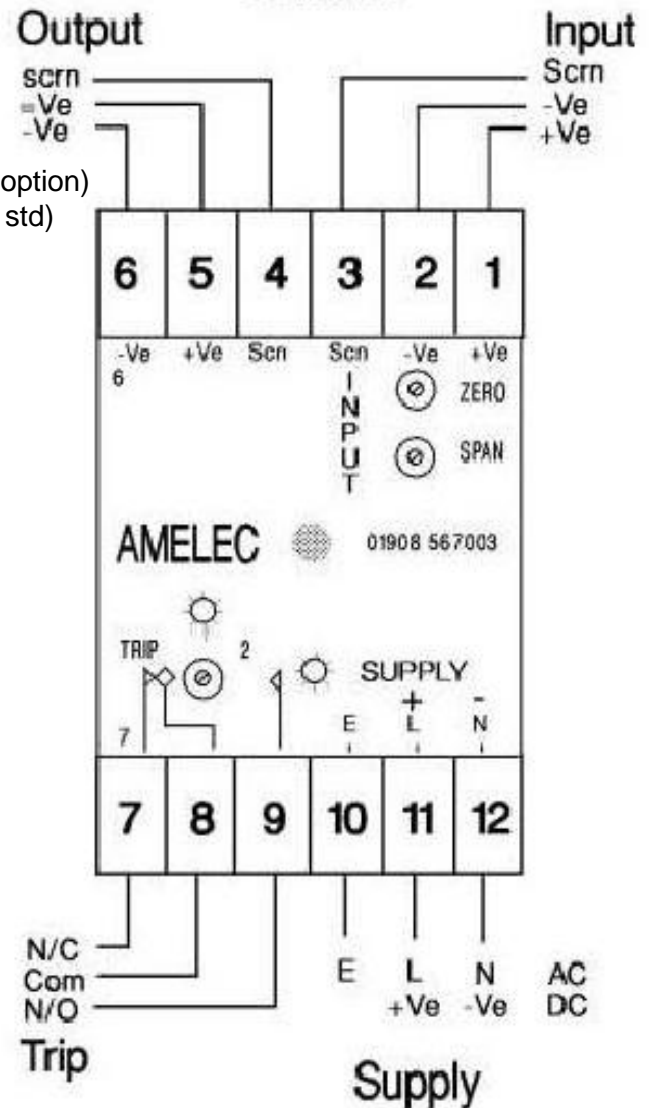
Performance

Accuracy/Linearity: $<\pm 0.1\%$ mV span as std
Response time: $\leq 400\text{ms}$ (0-100% input step change)
Isolation: 1000V RMS*(Input+Output)/Contacts/Supply/Earth
*(500Vdc when option 'K' is specified)
Input open circuit response: Up or Downscale may be specified
Relay: De-energise on Trip & Fail Safe on loss of power as std
(Trip actions to be defined at time of orders if requirements differ)

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 Environment)
(‘K’ option to highest EMC/EMI/RFI Generic Industrial levels)

WIRING



Mounting

Either Din Rail (TS35) **or** Surface by corner fixing holes as standard.

Dimensions

50w x 75h x 110d (mm)

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