

ADT112KX-DI-RIS-ET7205 Thermocouple/ mV Trip Amplifier with Display

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508) Safety Instrumented System (SIS) loop applications
- Non-Smart/Non-uProcessor based, Type 'A' instrument
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any mV signal range up to 400mV, or mV signal developed from any thermocouple type; J, K, N, R, S, T, with a minimum 4mV span. Automatic cold junction compensation fitted as standard.

Outputs

Each Trip output has a pair of either N.O or N.C contacts (TBA at time of orders), rated at 250VAC, 3A, 100VA resistive as standard.

Red LED indication of each Trip Relay status; Extinguished in Energised/healthy state, ON in De-energised/Alarm state.
Relays De-energise on Trip & Fail Safe on loss of power as standard

Digital Display

Continuous indication of the input on a 3½ digit Front Fascia LCD, scaled as either 0-100.0% or in Engineering units to suit applications. Front fascia Read buttons show the trip set points within the same range on the display, Calibration Range available: -1999 to +1999

Isolation

500Vdc Input/Contacts/Contacts/Supply/Earth

Performance

Deadband: Fixed 1% std ('other' fixed Hysteresis ranges available)

Trip settability: $\pm 0.1\%$

Trip repeatability: $\pm 0.1\%$

Response time: <200ms

Input O/C response: Upscale drive as standard

(O/C response Downscale drive available on request)

RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz/1.75GHz $\leq 40\text{V/m}$.

Environmental Conditions

Storage Temperature: -40 to 70°C

Operating Ambient: -15 to 55°C

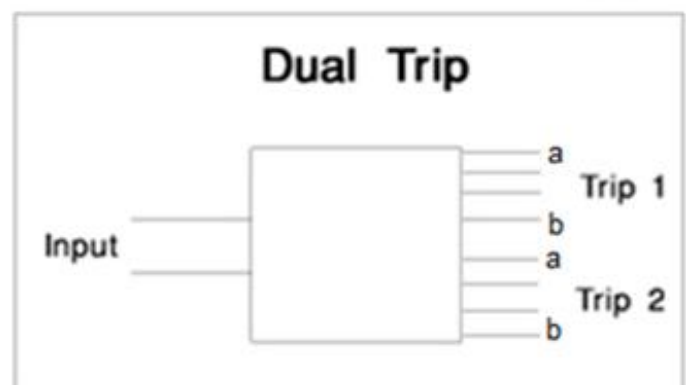
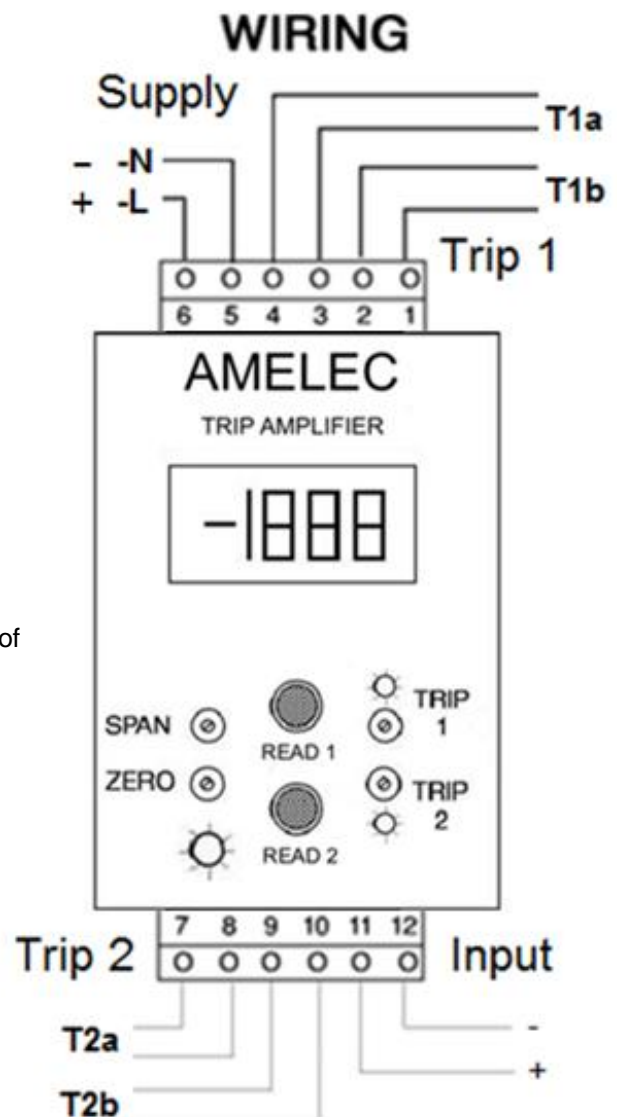
Relative Humidity: 5 – 95% RH

EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)

Customer Termination

Fixed screw terminals as standard

(Plug-in terminals available on request)



Mounting/Dimensions

Enclosure Dimensions: 50w x 75h x 182d mm

Din Rail (TS35) mounting as Standard.

Seismic/Surface Keyhole plate (50wx130h mm) & Front of Panel options also available on request.

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