

ADT121KX-DI-RIS-ET7274 RTD (2/3-wire) Trip Amplifier with Display

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor, Type A instrument
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any 2 or 3 wire PT100 resistance temperature sensor. Third wire compensation to overcome lead resistance variation. (PT500 / PT1000 & 4 wire input options also available)

Trip Relay Output

A pair of either N.O or N.C contacts (to be advised at time of orders), rated at 250VAC, 3A, 100VA resistive as standard.

Red LED indication of 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 temperature or 0-100.0 (%) to suit applications.

Front fascia Read button shows the trip set point within the same range on the display, Calibration Range available: -1999 to +1999

Performance

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

Trip settability: $\pm 0.1\%$

Trip repeatability: $\pm 0.1\%$

Response time: <400mS

Isolation: 500Vdc Input/Contacts/Supply/Earth

Input O/C response: Upscale drive as standard

(O/C response Downscale drive available on request)

RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10V/m$,

80MHz-1GHz/5.6GHz $\leq 30V/m$, 889MHz/1.75GHz $\leq 40V/m$.

Environmental Conditions

Storage Temperature: -40 to 70°C

Operating Ambient: -15 to 55°C

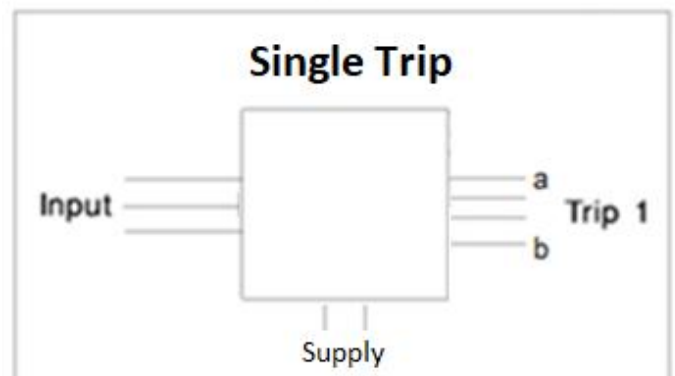
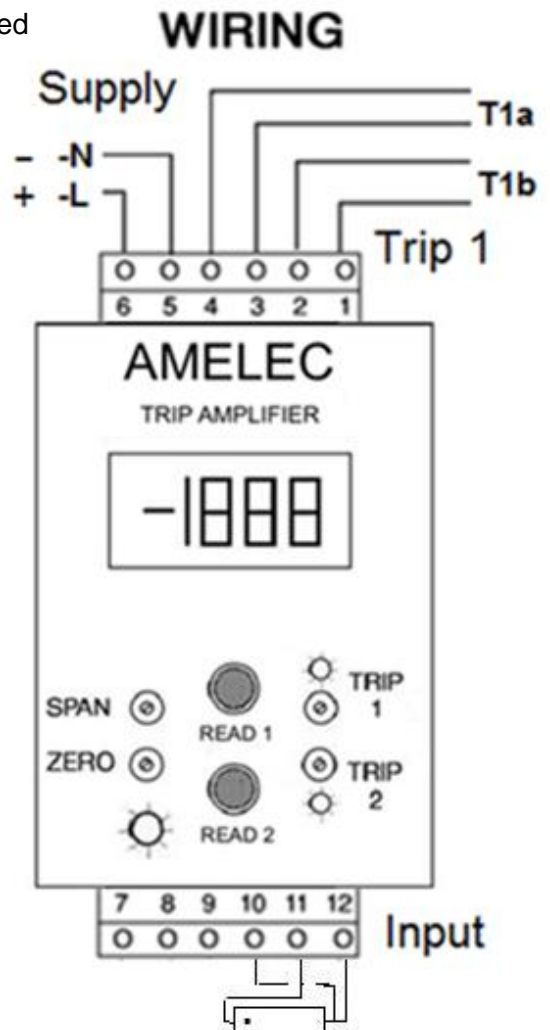
Relative Humidity: 5 – 95% RH

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.

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