

## ADT122KX-4W-RIS-ET7275 RTD (4-wire) Trip Amplifier

- 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 4 wire PT100 resistance temperature sensor.  
(PT500 / PT1000 & 4 wire input options also available)

#### Trip Relay Outputs

Trip 1 output has a pair of either N.O or N.C contacts & Trip 2 has a single either N.O or N.C contact (TBA at time of orders).  
Contacts 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

#### Performance

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

Trip settability:  $\pm 1\%$

Trip repeatability:  $\pm 0.1\%$

Response time:  $< 400\text{ms}$

Isolation: 500Vdc Input/Contacts/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  $\leq 10\text{V/m}$ ,  
80MHz-1GHz/5.6GHz  $\leq 30\text{V/m}$ , 889MHz/1.75GHz  $\leq 40\text{V/m}$ .

#### Environmental Conditions

Storage Temperature:  $-40$  to  $70^\circ\text{C}$

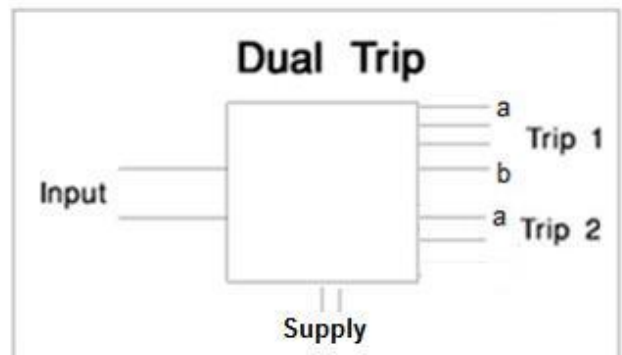
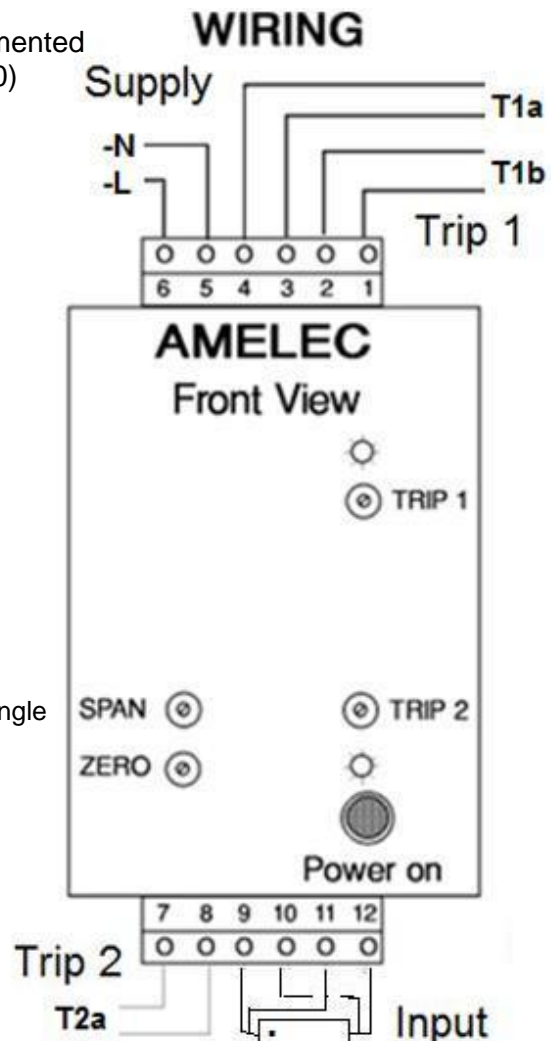
Operating Ambient:  $-15$  to  $55^\circ\text{C}$

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.