

## ADT122K RTD Temperature Trip Amplifier

- Suitable for SIL 1 or SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- 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 EN 61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty
- Digital Indication available - 'DI' Option

### Technical Specifications

#### Input

Any 2 or 3 Wire PT100 resistance temperature sensor.  
Third wire compensation is standard to overcome any lead resistance variation. (PT130 / PT500 / PT1000 & 4 wire input options available)

#### Trip Relay Outputs

Each output is a set of Single pole Changeover (S.P.C.O.) Contacts, rated at 250VAC, 2A, 100VA resistive as standard, with other ratings available on request ('X' option).  
Latching relays with local or remote Reset options also available on request ('L' option)  
Red LED indication of each Trip Relay status; ON Energised/ healthy, Extinguished in Trip/ De-energised/ Alarm state as standard.  
Fail Safe Relays; De-energise on Trip & on loss of power as standard.

#### Performance

Deadband: Fixed nom 1% span as standard, with 'other' fixed or Variable Hysteresis ('V' option) ranges available on request  
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 – 'X' option)  
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

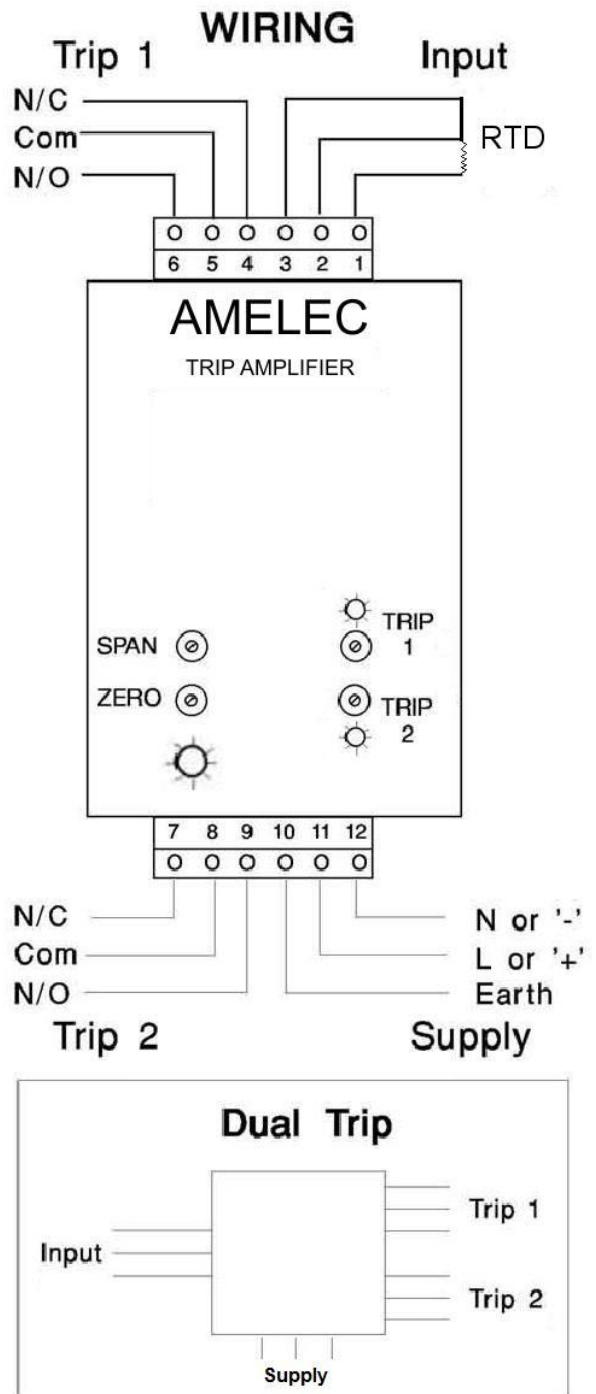
Storage Temperature:  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$   
Operating Ambient:  $-15^\circ\text{C}$  to  $+55^\circ\text{C}$   
Relative Humidity: 5 – 95% RH (Non-condensing)  
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)

#### 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, with Seismic/Surface Keyhole plate (50w x 130h mm) option also available on request.



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