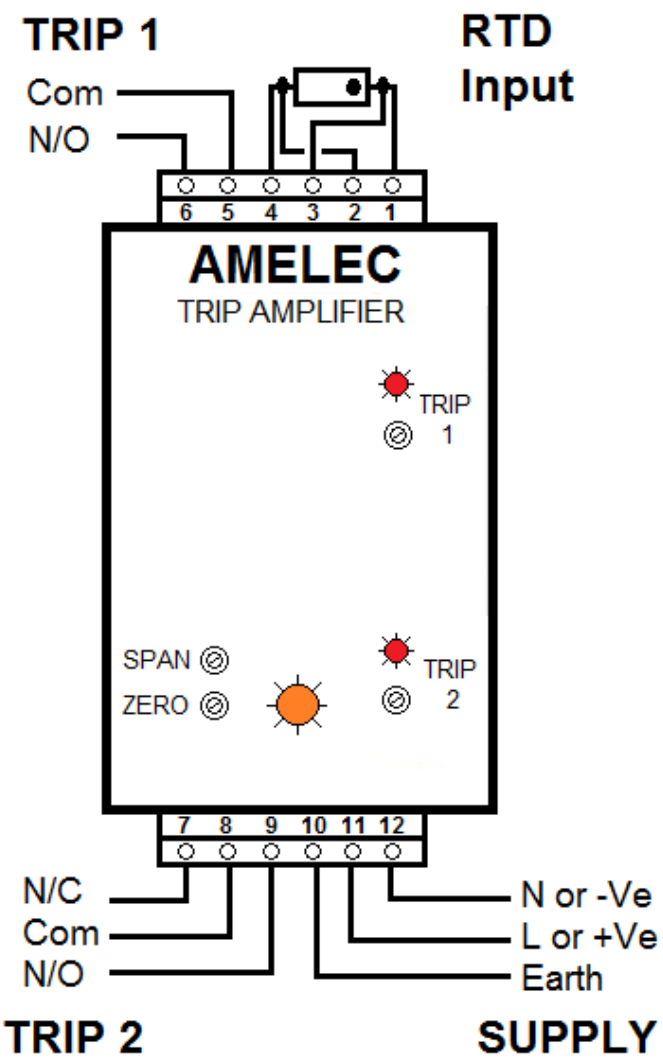
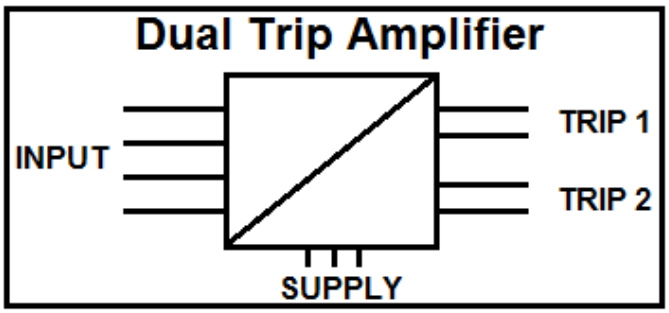
# ADT122K-4 Wire RTD Trip Amplifier

- 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 ±20%
  240Vac ±20%
  24Vdc ±10%
  48Vdc ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty
- Digital Indication available - 'DI' Option

## WIRING




## Technical Specifications

Input
Any 4 wire PT100 resistance temperature sensor.
(PT130 / PT500 / PT1000 & 3 wire input options also available)

Trip Relay Outputs
Trip 1 is a C.O contact (either N.O or N.C may be specified),
Trip 2 is a set of SPCO contacts.
Contacts rated at 250VAC, 2A, 100VA resistive as standard, with other ratings available on request ('X' option).

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

Performance
Deadband: Fixed 1% std ('other' fixed Hysteresis ranges available)
Trip settability: ±1%
Trip repeatability: ±0.1%
Response time: <400mS
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 ≤10V/m,
80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m.

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 (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 x130h mm) option also available on request.

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