

ADT122DI (BI)(V)(X)(K) RTD Trip Amplifier with Display

- Suitable for SIL 1, SIL 2 or SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Non-Smart/Non-uProcessor instrument (Type A)
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- 'K' option: 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. (PT130 / PT500 / PT1000 & 4 wire input options available)

Trip Relays

Each output is a set of S.P.C.O contacts, rated 250VAC, 3A,100VA (resistive).

Fail Safe Relays: De-energises on Trip & Loss of Power. Red LED indication of each Relay status: On Energised/healthy, Extinguished in Trip/De-energised state as std. (Red/Green BI-colour indicator LED optional)

Display of the Input on a 3½ digit LCD, Calibration range: -1999 to +1999, scaled 0-100.0 (%) or in Engineering units to suit the application.

(Up to 4½ digit Red LED Display option also available)

Front fascia Read buttons or Toggle switch show the Trip Set points within the calibrated scale.

Isolation

1000V RMS* Input/Contacts/Contacts(s)/Supply/Earth
*(500vdc if RFI option 'K' is specified)

Performance

Deadband: 1% standard (variable 1-20% optional 'V')

Trip settability: $\pm 0.1\%$

Trip repeatability: $\pm 0.1\%$

Response time: <400mS

Input O/C response: Upscale drive as standard (O/C Downscale drive option available on request)

'K' option RF Immunity: 20MHz-3GHz $\leq 10V/m$
(80MHz-1GHz/5.6GHz $\leq 30V/m$, 889MHz/1.75GHz $\leq 40V/m$)

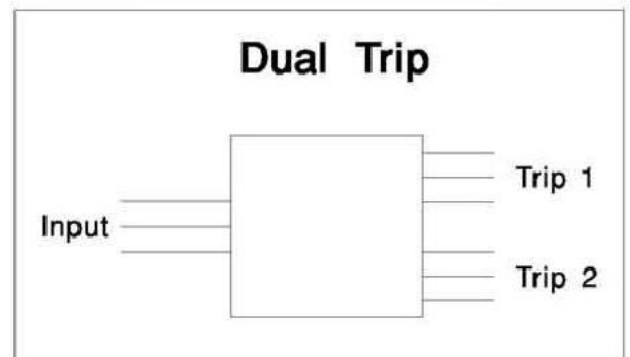
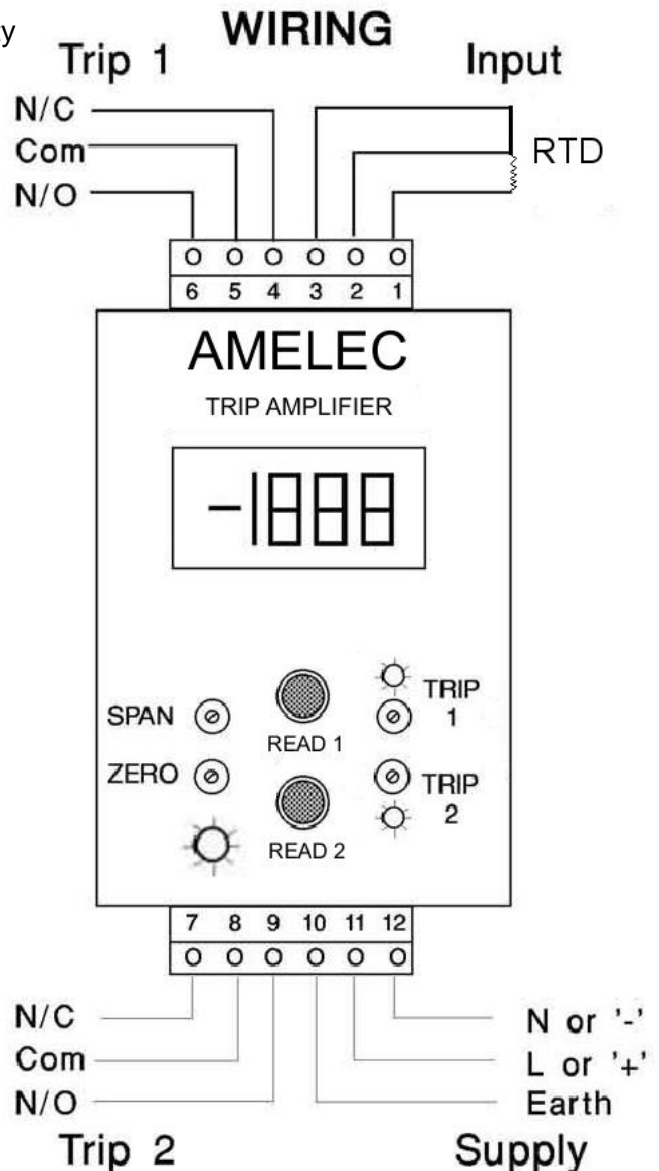
Mounting/Dimensions

Din Rail (TS35) standard, Surface by seismic Keyhole plate or Front of Panel mounting options also available on request.

Fixed screw terminals as standard, Plug-in terminals optional

Enclosure: 50w x 75h x 145d mm

(RFI 'K' option enclosure = 182d mm)



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

('K' option to highest Generic Industrial levels)

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