

ADT122DI (BI)(V)(X)(K) 4-Wire RTD Trip Amplifier with Display

- Suitable for SIL 1, SIL 2 or SIL 3 rated (IEC61508) safety system loop applications
- Suitable for 4 wire resistance temperature sensor
- Supply voltages: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 2.5V$
48Vdc $\pm 5V$
- RFI Protection to IEC61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty

Technical Specifications

Input

From 4 Wire RTD with a span greater than 30°C

Outputs

Each Trip output has a set of changeover contacts, rated at 250VAC, 3A, 100VA (resistive).
Red LED indication of Relay status standard (Red/Green Bi-colour LED optional)
Display of the I/P Temperature on a 3½ digit LCD
Front facia Read buttons show the trip set points
Calibration Range: -1999 to +1999
(Scaled in engineering units/temperature or 0-100% to suit the application)

Isolation

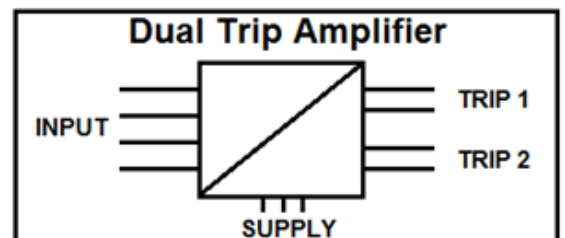
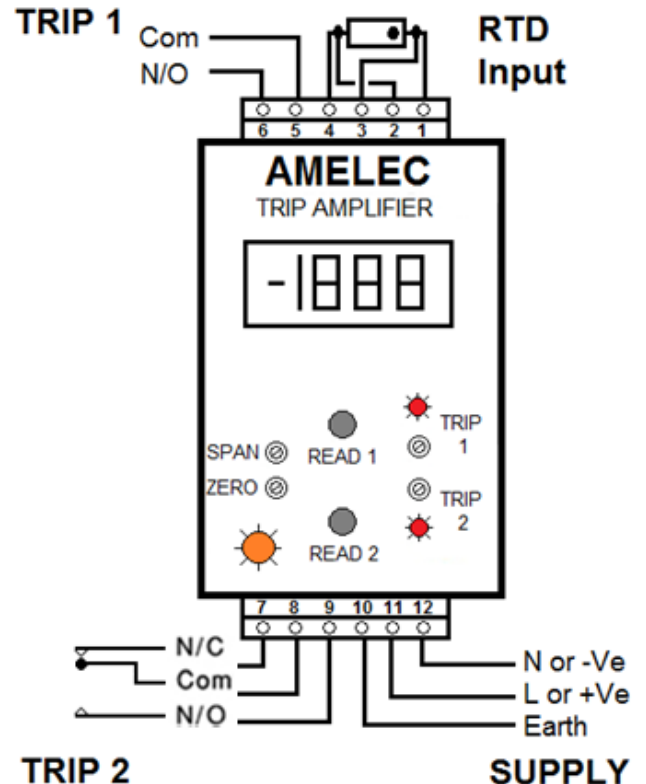
1000V RMS*Input/Contacts/Supply/Earth
*(500Vdc if RFI protection option 'K' is specified)

Performance

Deadband: 1% standard (variable 1-20% available, 'V' Option)
Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: <400mS
I/P O/C response UPSCALE as standard
(DOWNSCALE drive available on request, 'X' Option)
Fail safe on loss of power as standard.

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH
'K' option RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10V/m$,
(80MHz-1GHz/5.6GHz $\leq 30V/m$, 889MHz-1.75GHz $\leq 40V/m$)



Customer Termination

Fixed screw terminals as standard
(Plug-in terminals optional)

Mounting/Dimensions

Enclosure: 50w x 75h x 145d (mm)
(RFI 'K' option = 182d mm)
Standard DIN Rail (TS35) mounting,
or Surface by seismic Keyhole plate
and Front of Panel options available

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