

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

- Suitable for SIL 1, SIL 2 or SIL 3 rated (EN61508-2) safety system loop applications
- Non-Smart/Non-uProcessor instrument (Type A)

Supply voltages: 115Vac ±20%

240Vac ±20% 24Vdc ±10% 48Vdc ±10%

- RFI Protection to IEC61000-4-3:2006/A2:2010 option 'K'
- AMELEC Standard 10 year warranty

# **Technical Specifications**

#### Input

4-Wire PT100 RTD, any temperature range with a  $\geq$ 30°C span. Typical ranges: -15 to +25°C, 10-40°C, 0-50°C, 0-100°C, 0-250°C (PT500 & PT1000 input options also available)

### Outputs

Trip1 relay has a N.O contact & Trip2 relay has a set of S.P.C.O contacts as standard, each rated at 250VAC, 3A, 100VA (resistive) Red LED indication of each Relay Status as standard (Red/Green BI-colour LED indicators 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 also available).

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

### Isolation

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

#### Performance

Deadband: 1% standard (variable 1-20% available, 'V' Option)

Trip settability: ±0.1% Trip repeatability: ±0.1% Response time: <400mS

Input O/C response: Upscale drive as standard (O/C Downscale drive option 'X' available)

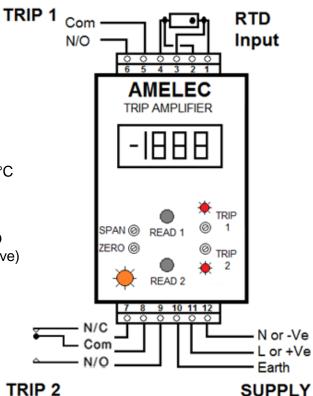
Relays Fail Safe: De-energise on Trip & Loss of Power as std.

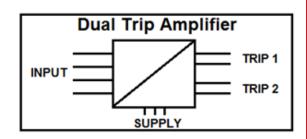
# **Environmental Conditions**

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH
'K' option RF Immunity: 20MHz-3GHz <10V/m

 $(80MHz-1GHz/5.6GHz \le 30V/m, 889MHz-1.75GHz \le 40V/m)$ 

# **WIRING**





## **Customer Termination**

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

#### Mounting/Dimensions

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

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