

ADT122X-3DI (BI)(X)(K) RTD Trip Amplifier with Display

- Suitable for 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: 24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' Option)
- 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 Relay Outputs

Each Trip output may be specified as either a N/O or N/C contact
The output contacts are rated at 250VAC, 3A, 100VA (resistive)
Red LED indication of Relay status as standard.
(Red/Green BI-colour LED relay status indicators are optional)
Each Trip Set Point is adjustable by a 15 turn potentiometer through the unit front fascia.
Display of the Input Temperature on a 3½ digit front fascia LCD.
Front fascia Read buttons show Trip 1 & Trip 3 set points within the calibrated range on the display.

Isolation

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

Performance

Deadband: 1% span as standard
(wider hysteresis optional, fixed up to 50% span)
Trip settability: $\pm 0.1\%$
Trip repeatability: $\pm 0.1\%$
Response time: <400mS
Input O/C response Upscale drive as standard
Fail Safe: Contacts De-energise on Trip & on Loss of Power as std

Environmental Conditions

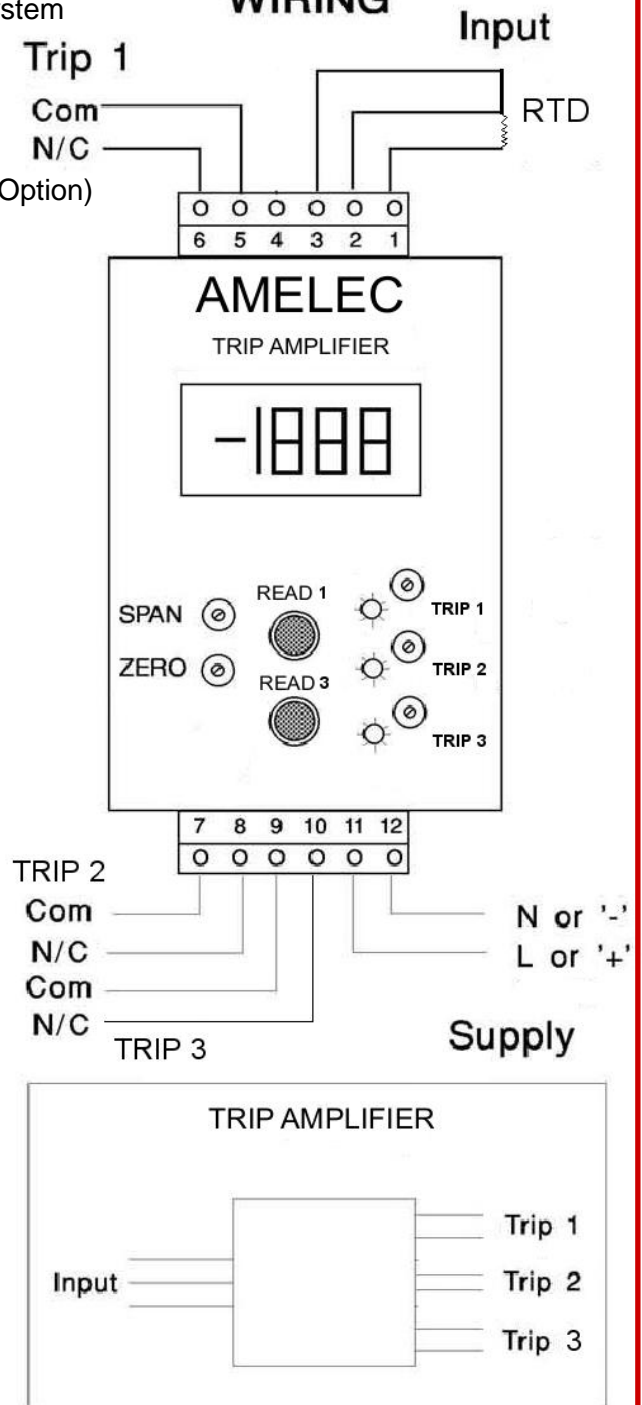
Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH
EMC: 2014/30/EU, EN 61326-1:2013
(‘K’ option to the highest Generic Industrial levels)

Enclosure Dimensions

50w x 75h x 145d (mm) as standard
(‘K’ option enclosure = 182d mm)

(optional rear Surface mounting Plate Dims = 50w x 130h mm)

WIRING



Customer Termination

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

Mounting

DIN Rail (TS35 as std, with Surface by seismic)
Keyhole plate & Front Panel options available

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