

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

N/C -

Com-

Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0) Trip 1

Non-Smart/Non-uProcessor instrument (Type A)

Supply voltage options: 115Vac ±20%

240Vac ±20% 24Vdc ±10%

48Vdc ±10% 'K' option: RFI Protection to EN 61000-4-3:2006/A2:2010

AMELEC Standard 10 year warranty

# **Technical Specifications**

#### <u>Input</u>

Any 2 or 3 wire PT100 resistance temperature sensor as std. 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 relay contacts, rated 250VAC, 2A,100VA (resistive).

Fail Safe Relays: De-energises on Trip & Loss of Power as std. Red LED indication of each Relay status: **ON** Energised/ healthy, Extinguished in Trip/De-energised state as std.

(Red/Green BI-colour LED indicators optional)

Display of the Input on a 3½ digit front LCD, Calibration range: -1999 to +1999, scaled **0.0-100.0** (%) or in Engineering units to suit the application on request.

(Up to 4½ digit Red LED front Display option also available) Front fascia Read buttons or Toggle switch available to show view the Trip Set points within the calibrated scale.

#### Isolation

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

## Performance

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

Trip settability: ±0.1% Trip repeatability: ±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 <10V/m

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

### 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

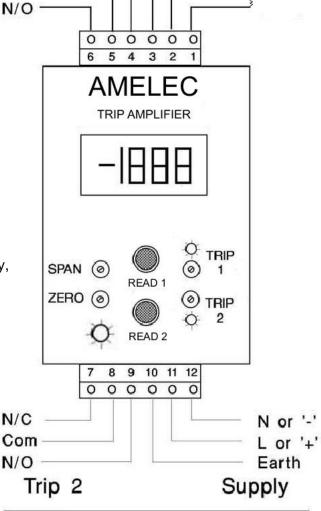
(RFI 'K' option enclosure = 182d mm)

Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

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)

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ



WIRING

Input

RTD

