ADT122 RTD Trip Amplifier

- Suitable for SIL 1 & 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: 20Vac ±20%
  115Vac ±20%
  240Vac ±20%
  24Vdc ±10%
  48Vdc ±10%
- RFI Protection to IEC61000-4-3:2006/A2:2010 available ('K' Option)
- Front fascia Digital Display available ('DI' 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 output is a set of S.P.C.O contacts, rated 250VAC, 2A,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)

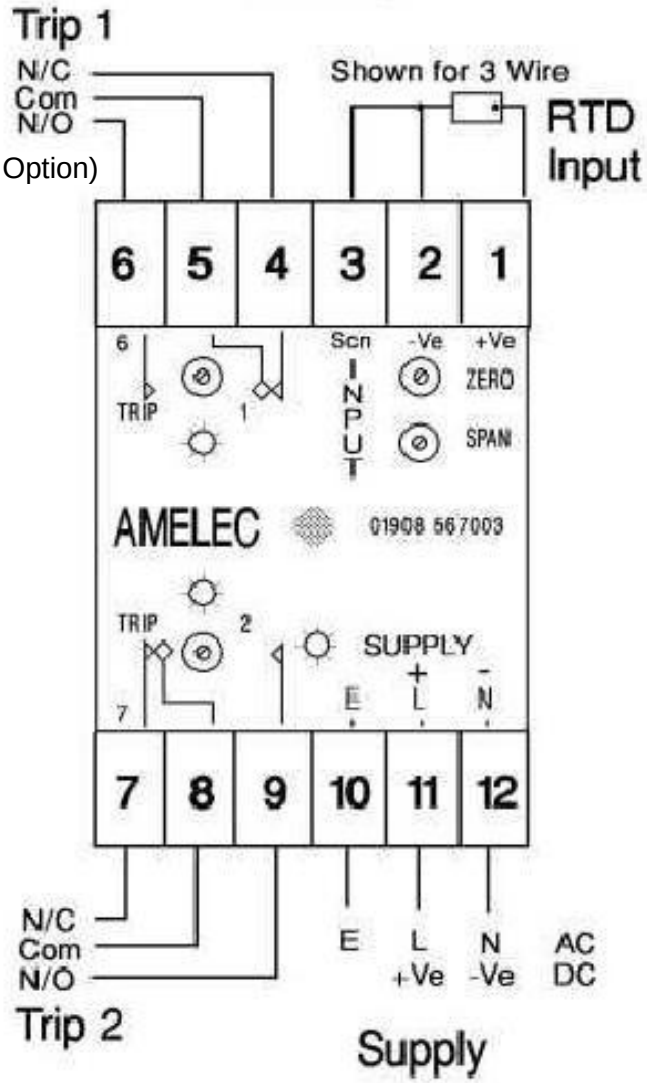
Isolation
1000V RMS* Input/Contacts/Contacts/Supply/Earth
*(500Vdc if RFI option 'K' is specified)

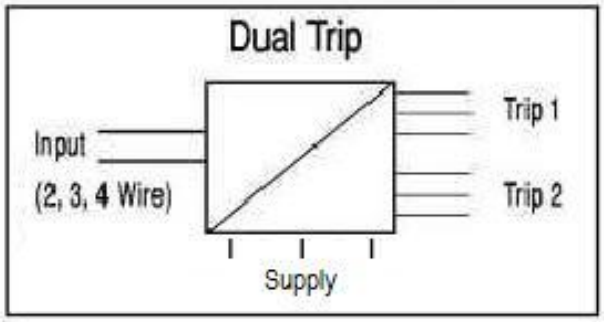
Performance
Deadband: 1% standard (variable 1-20% optional 'V')
Trip settability: ±0.1%
Trip repeatability: ±0.1%
Response time: <400mS
Input O/C response: Upscale drive as standard
(O/C Downscale drive option available on request)
'K' option RF Immunity: 20MHz-3GHz ≤10V/m
(80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m)

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)

Dimensions
50w x 75h x 110d mm as standard
('DI' option= 145d mm, 'K' option = 182d mm enclosure)

WIRING





Mounting
Din Rail (TS35) ***or*** Surface by corner fixing holes as standard

Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735
AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ

Issue 3: 02.18