

ADT121K-4 wire RTD Trip Amplifier with single Trip set point

- Suitable for SIL 1, SIL 2 or SIL 3 rated (IEC61508) safety system loop applications
- Suitable for BS1904 4-wire RTD Inputs
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty

Technical Specifications

Input

From a 4 wire RTD (PT100), with a span greater than 25°C.
(2 / 3-wire RTD, PT500 or PT1000 input options are available on request)

Relay Output

Output is 1 x N.O or N.C contact + 1 x set of single pole changeover (S.P.C.O) contacts, rated at 250VAC, 2A, 100VA (resistive).
Red LED indication of Relay status
Latching relay option with local or remote Reset available ('L' option)

Isolation

500Vdc Input/Contacts/Supply/Earth

Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: <400ms
Input O/C response UPSCALE drive as standard
(O/C Downscale drive 'X' Option available)
Trip Hysteresis: 1% span as std, wider or variable options available
Relay: De-energise on Trip & fail safe on loss of power as std
(Energise on Trip & non-fail safe options available on request)

Protection

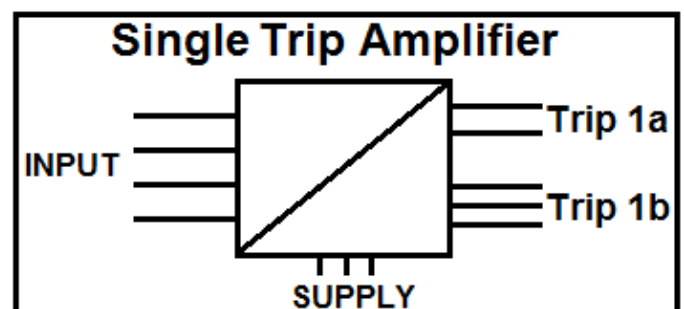
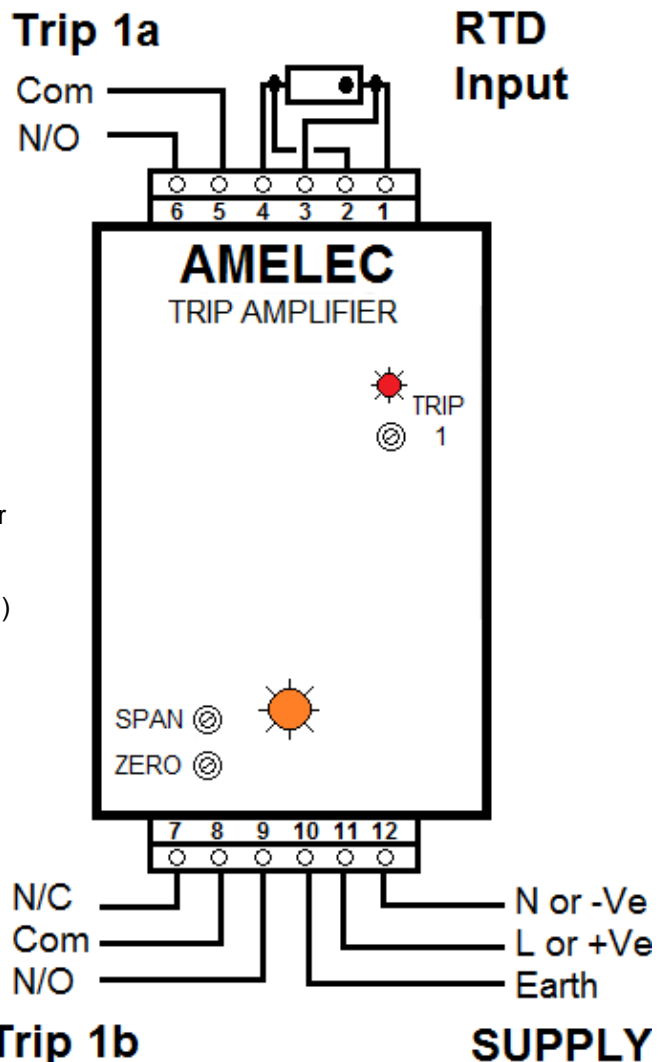
Isolation 500Vdc: Input/Output/Supply/Earth
Internal Fuse.
Input over range up to typically 300%.
RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz-1.75GHz $\leq 40\text{V/m}$)

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH

Mounting/Dimensions

Enclosure: 50w x 75h x 182d (mm)
Standard DIN Rail (TS35), or Surface by Seismic Keyhole plate
& Front of Panel mounting options available.
(Seismic mounting plate Dimension: 50w x 130h mm)



Customer Termination

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

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