

ADT121K-4W-RIS-ET7274 RTD (4-wire) Trip Amplifier

- Suitable for SIL 1 or SIL 2 rated (IEC61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options:
 - 115Vac $\pm 20\%$
 - 240Vac $\pm 20\%$
 - 24Vdc $\pm 10\%$
 - 48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010
- Non-Smart/Non-uProcessor, Type 'A' instrument
- Digital Indication available (DI option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any 4 wire PT100 resistance temperature sensor.
(PT500 / PT1000 & 3 wire input options available)

Deadband

Standard 1% Span
(Adjustable from 0.5 to 20% of span available - V option)

Output Contacts

A pair of either N.O or N.C contacts (TBA at time of orders)
rated 3A 240Vac resistive load as standard.
Set point adjustment via 15 turn blindset potentiometer.

Isolation

500Vdc Input/Contacts/Supply/Earth
Open circuit response standard Upscale drive as standard.
(Downscale response option available)

Monitor Points

0-5 Vdc representing full input Span

Performance

Trip settability: $\pm 1\%$
 Trip repeatability: $\pm 0.1\%$
 Response time: $< 400\text{ms}$
 RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
 80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz/1.75GHz $\leq 40\text{V/m}$

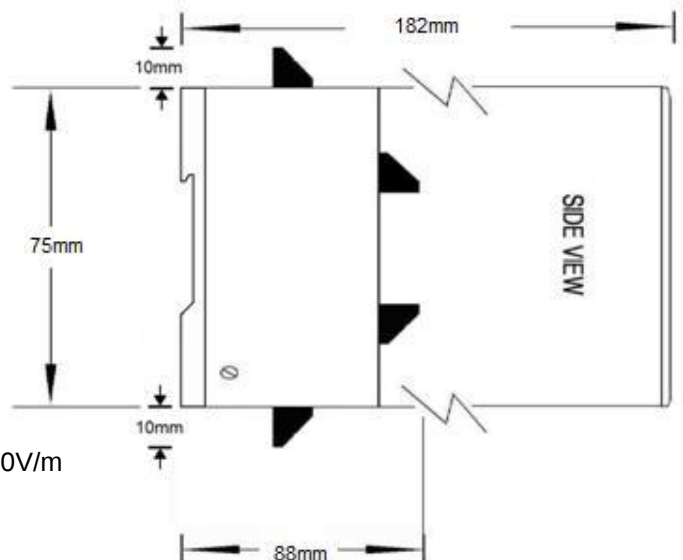
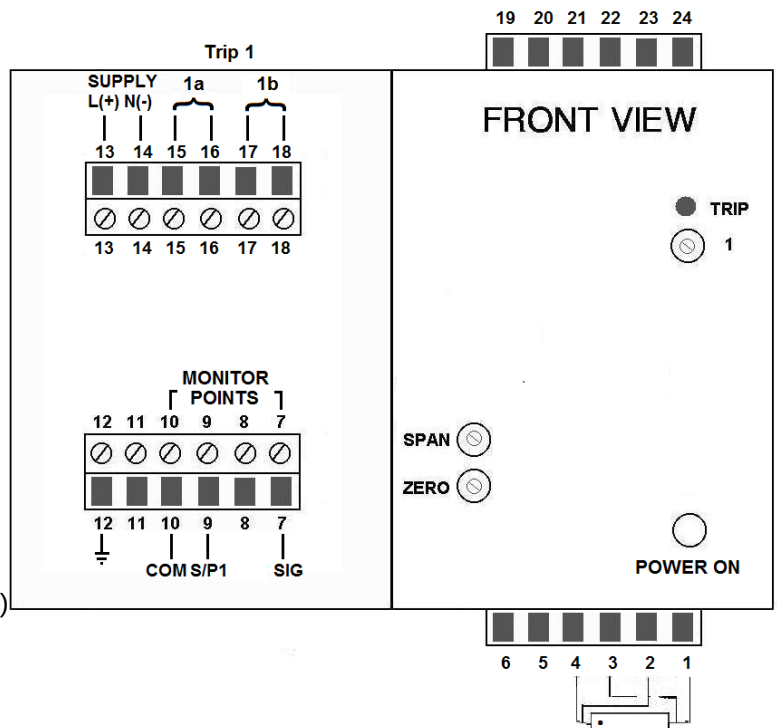
Environmental Conditions

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

Dimensions

100w x 75h x 182d (mm)

Wiring



Mounting Options

Heavy duty Din Rail (TS35) as standard.

Surface by Seismic keyhole plate option available.