

ADT122K-4W-RIS-ET7275 RTD (4-wire) Dual 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

2-Pairs of either N.O or N.C contacts per set point (TBA at time of orders) rated 3A 240Vac resistive load as standard.
Set point adjustments via 15 turn blindset potentiometers.

Isolation

500Vdc Input/Contacts/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 $\leq 40\text{V/m}$

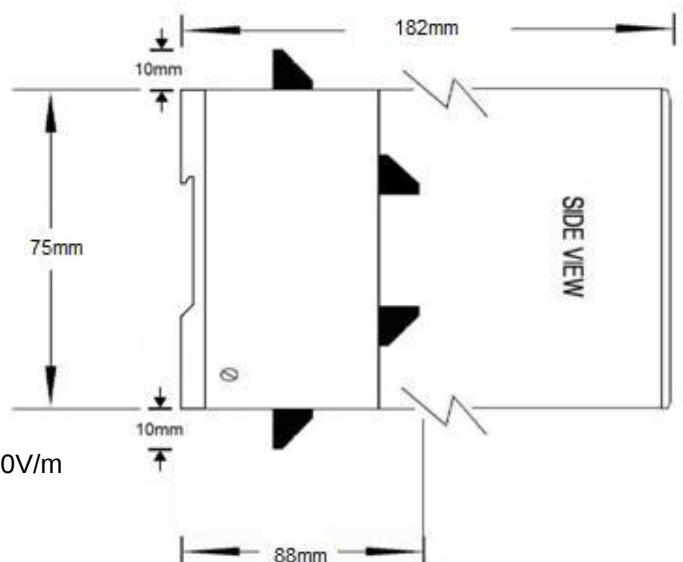
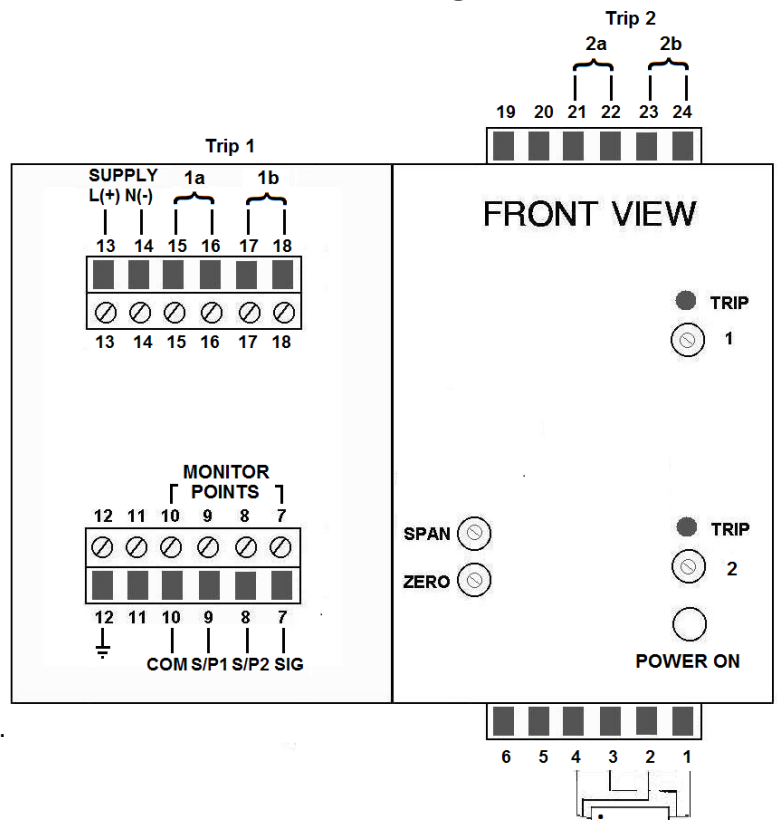
Environmental Conditions

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.