

ADC314X-3-RTD-4W Three Input Temperature Averager

- Suitable for SIL 1 & SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor, Type 'A' instrument
- Supply Voltage options: 24Vdc or 48Vdc (±10%), 115Vac or 230Vac (±20%)
- Amelec Standard 10 year warranty

Input (x 3)

Any 4-wire PT100 resistance temperature sensor.

(PT130 / PT500 / PT1000 & 3 wire input options available)

Typical Input ranges

-15 to +25°C, 0-50°C, 0-100°C, 0-150°C / PT100, 4-wire connection

Output

Any standard process current or voltage in the range of;

Current source up to 22mA max, with drive voltage 12Vdc

(Current Sink option available, 30Vdc max external drive)

Voltage source up to 10V max output

Typically: 4-20mA (max load 550Ω) or 0-10Vdc (min load 500Ω)

Performance

Equation: $\text{Input A} + \text{B} + \text{C} / 3 = \text{Output}$

Accuracy/Linearity: $\leq \pm 0.1\%$ resistance Span as standard

(Linearisation to temperature 'G' option available)

Response Time: $< 400\text{ms}$

Input over range: up to 300%

Input Open Circuit response: Upscale drive as standard

(Input O/C Downscale drive 'X' option available)

Supply consumption: $< 3\text{VA}$

Environmental Conditions

Storage temperature: -40 to 70°C

Operating ambient: -15 to 55°C

Relative humidity: 5-95 % RH

(Non-condensing)

EMC: 2014/30/EU, EN 61326-1:2013

(Controlled EM)

Isolation

1000V RMS

Inputs/Output/Supply/Earth

Dimensions

152w x 81h x 137d mm

Mounting

Din Rail (TS35)

