

ADC314X-4-RTD Four Input Temperature Averager

- Suitable for SIL 1 & SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications, as 1001 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

<u>Input (x 4)</u>

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)

Typical Input ranges

-15 to +25°C, 0-50°C, 0-100°C, 0-150°C / PT100, 3-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: Input A + B + C + D / 4 = Output

Accuracy/Linearity: <±0.1% resistance Span as standard

(Linearisation to temperature 'G' option available)

Response Time: <400mS Input over range: up to 300%

Input Open Circuit response: Upscale drive as standard

Supply consumption: <3VA

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

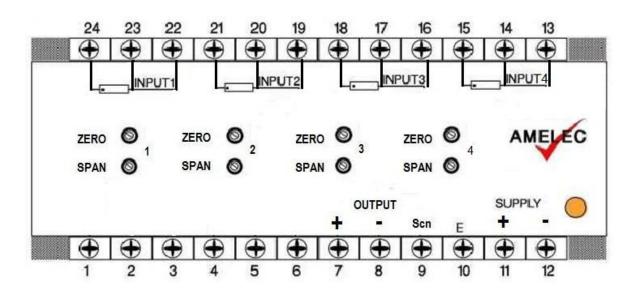
1000V RMS Inputs/Output/Supply/Earth

Dimensions

152w x 81h x 137d mm

Mounting

Din Rail (TS35)



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