

## ADC314X-4-RTD Four 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 ( $\pm 10\%$ ), 115Vac or 230Vac ( $\pm 20\%$ )
- Amelec Standard 10 year warranty

### Input (x 4)

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:  $\text{Input A} + \text{B} + \text{C} + \text{D} / 4 = \text{Output}$   
Accuracy/Linearity:  $< \pm 0.1\%$  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  
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)

