

ADP451SP AC Current Transducer

- Suitable for SIL 1 & SIL 2 rated (IEC61508) safety system loop applications (1001 architecture / HFT:0)
- Suitable for combinations of AC Current Inputs & DC Current or Voltage Outputs
- Self-Powered off the input loop
- RFI Protection to IEC61000-4-3:2006/A2:2010 option 'K' available; (20MHz-3GHz/5.25GHz \leq 10V/m, 80MHz-1GHz/5.6GHz \leq 30V/m, 889MHz-1.75GHz \leq 40V/m)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

AC Current ranges, typically 0-1Amp or 0-5Amps
Intermediate ranges available at no extra cost

Output

Any std zero based process current or voltage (dc) signal
Current source up to 20mA or Voltage source up to 10Vdc
Typically: 0-10mA, 0-20mA or 0-5Vdc or 0-10Vdc

Isolation

1000V RMS*. Input/Output/Earth
*(500Vdc if option 'K' RFI protection is specified)

Performance

Accuracy: $<\pm 0.2\%$ of span
Linearity: $<\pm 0.2\%$ for 10-100% of span
($<\pm 0.25\%$ for 1-10% of span)

Power Supply

Self Powered: Supply is derived from the input loop being measured.
(measured voltage must always be $\geq 80\%$ nom value)

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH

Dimensions/Mounting

Std Enclosure: 50w x 75h x 110d mm
TS35 Din Rail or Surface by corner fixing holes

'K' option Enclosure: 50w x 75h x 182d mm
TS35 Din Rail or Surface by optional Keyhole plate

