

ADP451EP-RMS AC Current Transducer

- Suitable for SIL Level 1, 2 & 3 applications
- Suitable for combinations of AC Inputs & DC Outputs
- Supply voltages: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 2.5V$
48Vdc $\pm 5V$
- RFI Protection to IEC61000-4-3 available
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Standard 0-1Amp or 0-5Amps
Intermediate ranges available at no extra cost

Output

Any standard process current or voltage
Current source up to 20mA. Drive voltage 24Vdc
Voltage source up to 10V. Max current 20mA

Isolation

1000V RMS*. Input/Output/Supply/Earth
*(500Vdc if RFI option (K) is specified)
Linearity $< \pm 0.1\%$

True RMS value for signal crest value up to 5
Crest factors 1 to 3 additional error 0.7% of span.
Crest factors 5 additional error 2.5% of span.

Environmental Conditions

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

Input Load / Output Drive

Typical Input

0-5A loading 0.1VA

Typical Output

Current 4-20mA max load 1200Ω
Voltage 1-5Vdc min load 500Ω

Dimensions

50w x 75h x 110d (mm)

