

ADP452EP-RMS Voltage Transducer

- Suitable for combinations of AC Inputs & DC Outputs
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 2.5V$
48Vdc $\pm 5V$
- 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

Standard 0-150V or 0-300V RMS @ up to 400Hz
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 'K' option specified)

Response time 25ms

Linearity $< \pm 0.5\%$

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

0-150V loading 0.1VA

Typical Output

Current 4-20mA load 1200Ω

Voltage 0-10Vdc load 500Ω

Dimensions

50w x 75h x 110d (mm)

