

ADP452EP-HV-RMS Voltage Transducer

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options:

115Vac	±20%
240Vac	±20%
24Vdc	±10%
48Vdc	±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 available option 'K'; (20MHz-3GHz/5.25GHz ≤10V/m, 80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

0-600V, 0-750V or 0-900V RMS @ up to 400Hz
(Intermediate ranges available on request)

Output

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

Isolation

1500V RMS Input/(Output-Supply-Earth)
1000V RMS* Output/Supply/Earth
*(500Vdc Output/Supply/Earth when 'K' option specified)

Performance

Response time: <400ms
Accuracy/Linearity: <±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 (Non-condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)
('K' option to the highest Generic Industrial levels)

Mounting:

Din Rail (TS35) or Surface (by Corner Fixing holes)

Dimensions

50w x 75h x 110d mm

('K' option enclosure 50w x 75h x 182d mm)

