

ADP452LPX AC Voltage Transducer

- Suitable for SIL 1 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Non-Smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 'K' option available; (RF immunity: 20MHz-3GHz/5.25GHz $\leq$ 10V/m, 80MHz-1GHz/5.6GHz $\leq$ 30V/m, 889MHz/1.75GHz $\leq$ 40V/m)
- AMELEC 5 year warranty

Technical Specifications

Input

AC voltage ranges, up to 1000Vac max

Typical: 0-240Vac, 0-400Vac, 0-500Vac, 0-800Vac, 0-1000Vac

Intermediate ranges available at no extra cost on request

Output

4-20mA DC Sinking current

Output Load

max 550 Ω load @24Vdc supply

Loop Supply Voltage

24Vdc $\pm$ 5%

Isolation

3KV* Input / (Output+Supply)

*(1500Vdc if 'K' option specified)

Performance

Accuracy: $<\pm$ 1%

Linearity: $<\pm$ 0.5%

Supply consumption: 35mA+Iout

Input Open Circuit response: Downscale drive

Environmental Conditions

Storage Temperature: -40 to +100°C

Operating Ambient: -25 to +85°C

Relative Humidity: 5 – 95% RH (Non-condensing)

EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)

('K' option: EMC/EMI/RFI protection to the highest Generic Industrial Standards Test levels)

Dimensions / Mounting

Std Enclosure: 50w x 75h x 110d mm

TS35 Din Rail or Surface by corner fixing holes

(Customer connections: Fixed screw terminals to front of unit)

'K' option Enclosure: 50w x 75h x 182d mm

TS35 Din Rail or Surface by optional Keyhole plate

(Customer connections: Fixed screw terminals towards rear of unit)

