

ADP452SP AC Voltage Transducer

- Suitable for SIL 1 & SIL 2 rated (IEC61508) safety system loop applications (1oo1 architecture / HFT:0)
- Suitable for combinations of AC Voltage 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

Any standard ac voltage range, up to 500Vac max
 Typical: 0-100Vac, 0-150Vac, 0-220Vac or 0-440Vac
 Intermediate ranges available at no extra cost on request

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: $\leq \pm 0.2\%$ of span
 Linearity: $\leq \pm 0.1\%$ for 10-100% of span
 ($\leq \pm 0.5\%$ for 1-10% of span)

Power Supply

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

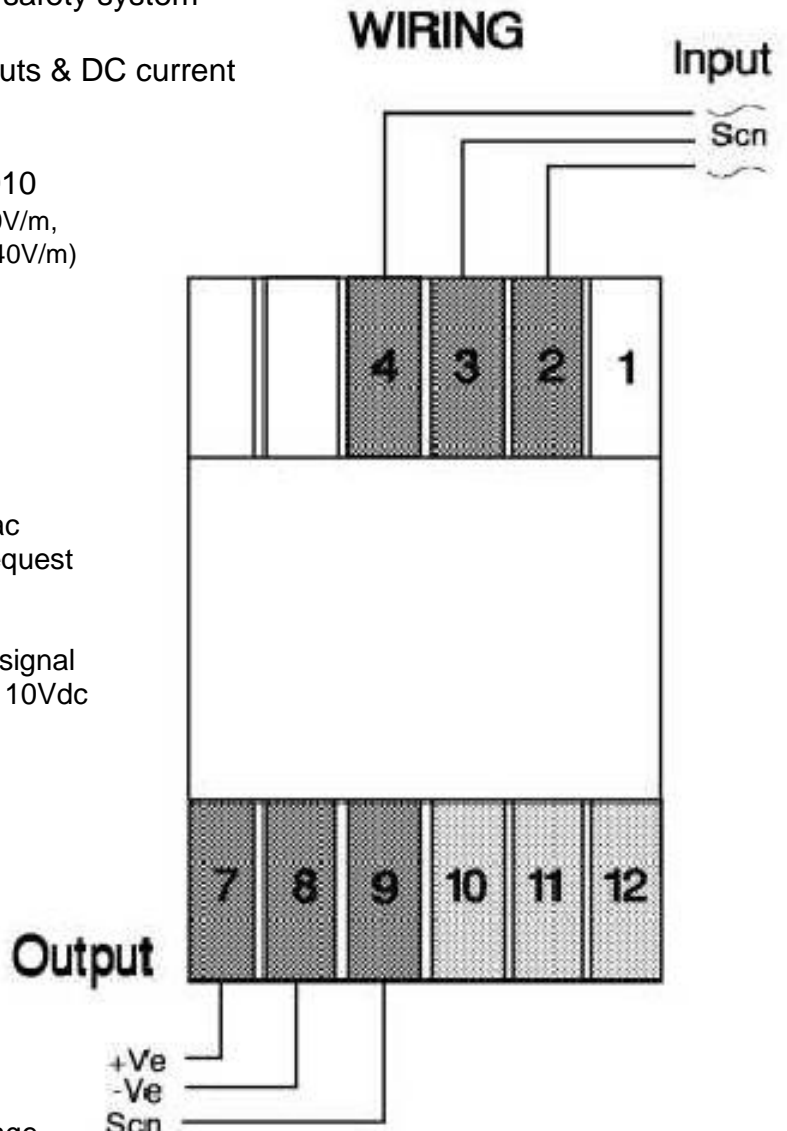
Environmental Conditions

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



W-50 H-75 D-110 (mm)

