

ADP452EP AC Voltage Transducer

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Supply voltage options:
 - 115Vac $\pm 20\%$
 - 230Vac $\pm 20\%$
 - 24Vdc $\pm 10\%$
 - 48Vdc $\pm 10\%$
- 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 Standard 10 year warranty

Technical Specifications

Input

Any standard ac voltage range, up to 600Vac max
 Typical: 0-100Vac, 0-220Vac or 0-440Vac
 Intermediate ranges available at no extra cost on request

Output

Any standard process current or voltage (dc) signals
 Current source up to 20mA or Voltage source up to 10Vdc
 Typical: 4-20mA (max 1200 Ω load) or 0-10Vdc (min 500 Ω load)

Isolation

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

Performance

Accuracy: $< 0.2\%$
 Linearity: $< \pm 0.1\%$
 Supply consumption: $< 3VA$
 Input Open Circuit response: Downscale drive as std

Environmental Conditions

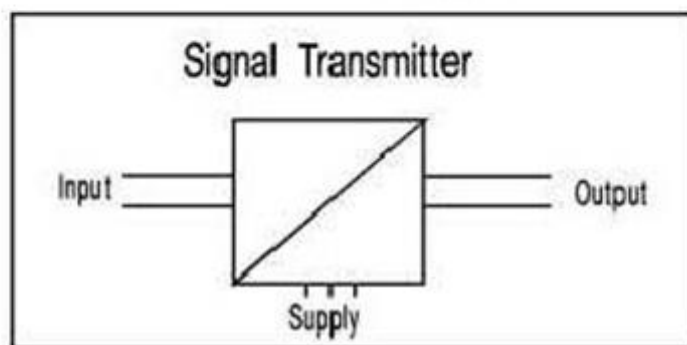
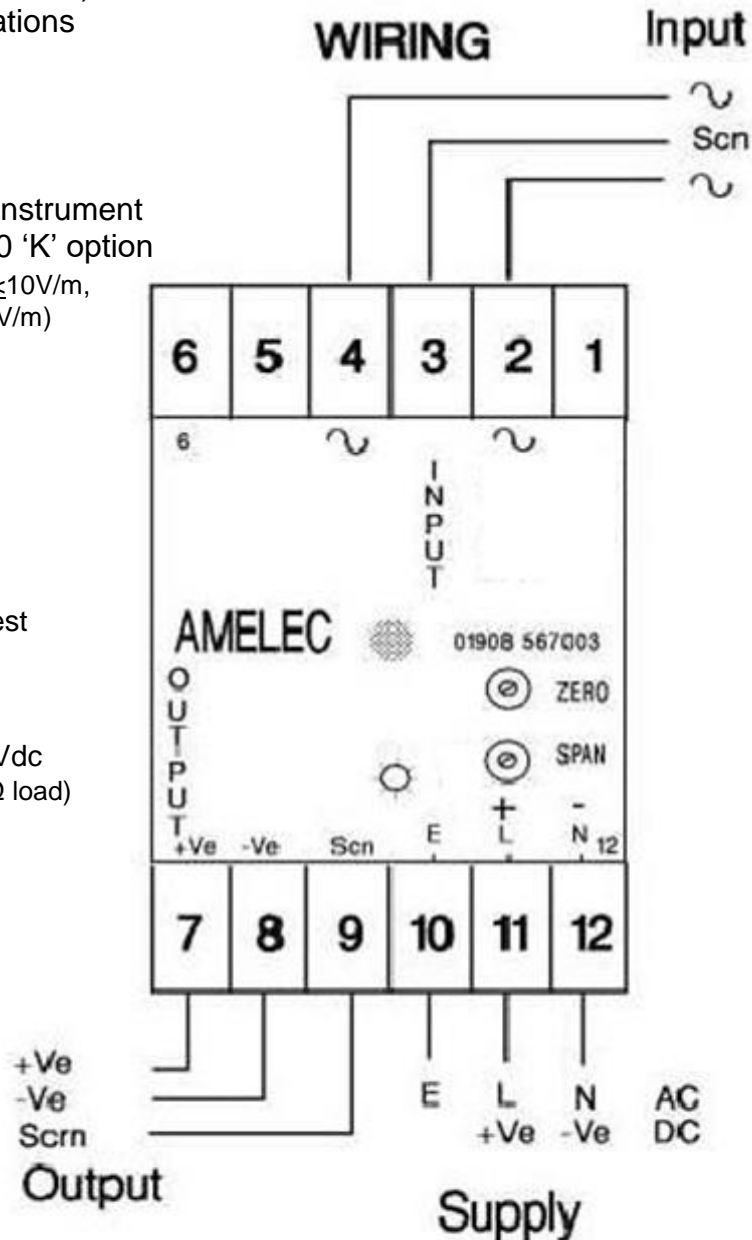
Storage Temperature: -40 to 70 $^{\circ}C$
 Operating Ambient: -15 to 55 $^{\circ}C$
 Relative Humidity: 5 – 95% RH (Non-condensing)
 EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)
 ('K' option: EMC/EMI/RFI protection to the highest Generic Industrial Standards Test levels)

Dimensions / Mounting

Std Enclosure: 50w x 75h x 110d mm
 TS35 Din Rail or Surface by corner fixing holes

'K' option Enclosure: 50w x 75h x 182d mm
 TS35 Din Rail or Surface by optional Keyhole plate

WIRING



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