

ADM241 Slidewire / Resistance / Potentiometer Transmitter

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options:
 - 115Vac ±20%
 - 240Vac ±20%
 - 24Vdc ±10%
 - 48Vdc ±10%
- Non-Smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN C61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Resistance/ Slidewire/ Thermistor/ Potentiometer with calibrated input spans up to 10KΩ as std.

Any wire wound Potentiometer can be specified in the range of: 100Ω up to 10KΩ. Version also available for plastic film pots (Input excitation 1V dc @ 2mA max, other options available).

Outputs

DC currents &/or voltages may be specified in the range of:
 Current up to 100mA max in Sink configuration (externally powered)
 Current up 22mA max in Source configuration (Internally powered)
 Voltage up to 10V max per output.
 Typical outputs: 2x 4-20mA (Source ports, 550Ω loads max)

Isolation

1000V RMS* Input/Output1/Output2/Supply/Earth
 *(500Vdc when 'K' option is specified)

Performance

Accuracy/Linearity: < ±0.1% resistance span
 Response time: < 400mS (0-100% input step change)
 Supply consumption: < 4VA
 Input O/C response: Upscale drive as standard
 (O/C Downscale drive option 'X' available)

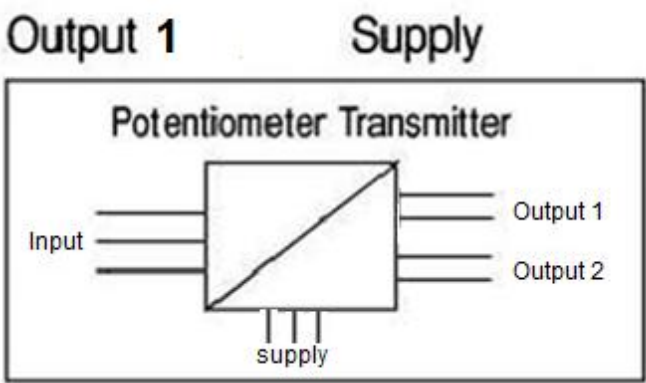
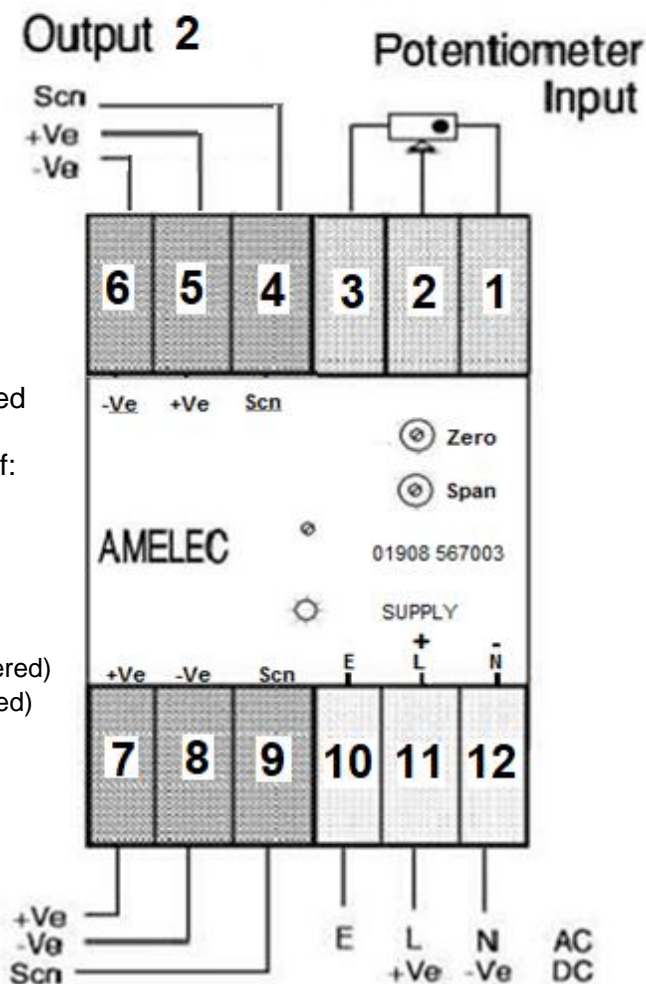
Environmental Conditions

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)

Dimensions

Enclosure: 50w x 75h x 110d mm
 ('K' option enclosure = 182d mm)

WIRING



Mounting

Either Din Rail (TS35) **or** Surface by corner fixing holes