

ADM240 Slidewire/ Resistance/ Thermistor/ 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 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Resistance/ Slidewire/ Potentiometer/ NTC/PTC Thermistor, Input ranges up to 60KΩ, 2 or 3 wire input connections. Any wire wound Potentiometer can be specified in the range of: 100Ω up to 20KΩ. Version also available for plastic film pots (Input Excitation 1V dc @ 2mA max, other options available).

Output

DC current or voltage specified in the range of: Current up to 100mA max in Sink configuration (externally powered) Current up to 22mA max in Source configuration (Internally powered) Voltage up to 20Vdc max @ up to 5mA per output. Typical output: 4-20mA (Active port, 1200Ω load max)

Isolation

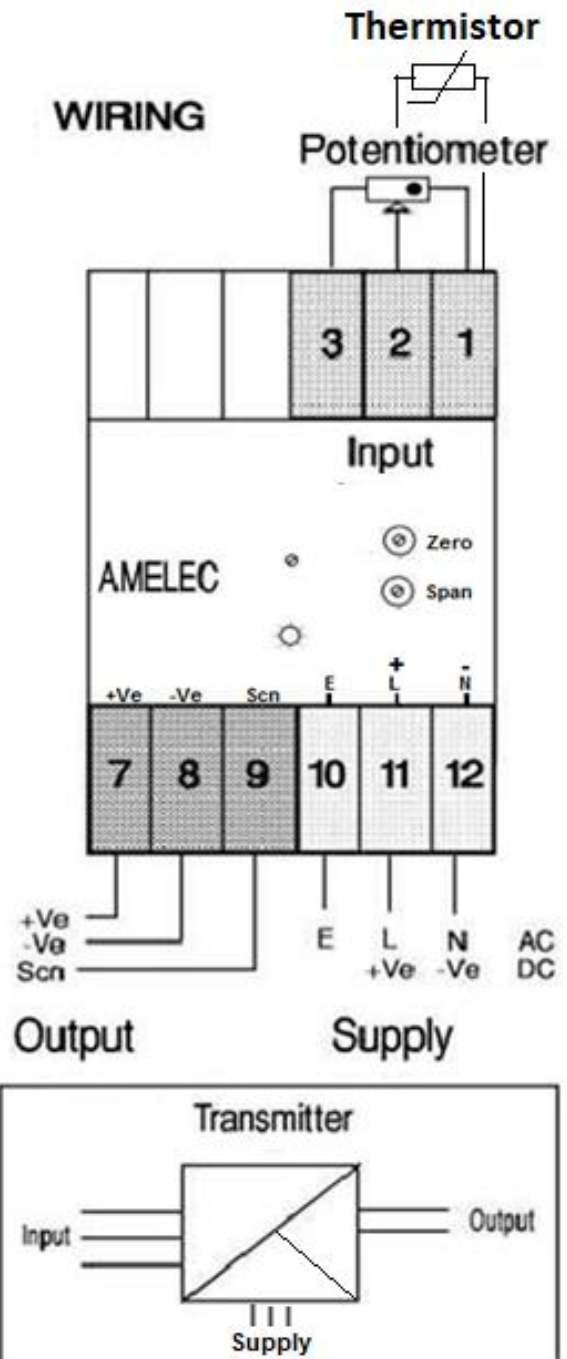
1000V RMS* Input/Output/Supply/Earth
*(500Vdc when RFI option 'K' is specified)

Performance

Accuracy/Linearity: < ±0.1% resistance span as std (Reverse Acting option 'RA' & Linearisation of output signal to resistance curves option 'G' is available if required)
Response time: <400mS (10-90% input step change)
Supply consumption: < 3VA
Input O/C response: Upscale drive as standard (O/C Downscale drive 'X' option 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/Mounting

Enclosure: 50w x 75h x 110d mm
Mounting: Either Din Rail (TS35) or Surface by corner fixing holes as standard.

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

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