

ADM240-RIS-PR2050 Series Resistance / Slidewire 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 $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- 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
Input ranges up to 60K Ω .

Any wire wound Potentiometer can be specified in the range of: 100 Ω up to 20K Ω .

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, 1200 Ω load max)

Isolation

1000V RMS* Input/Output/Supply/Earth

*(500Vdc when RFI option 'K' is specified)

Performance

Accuracy/Linearity: < $\pm 0.1\%$ resistance span

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

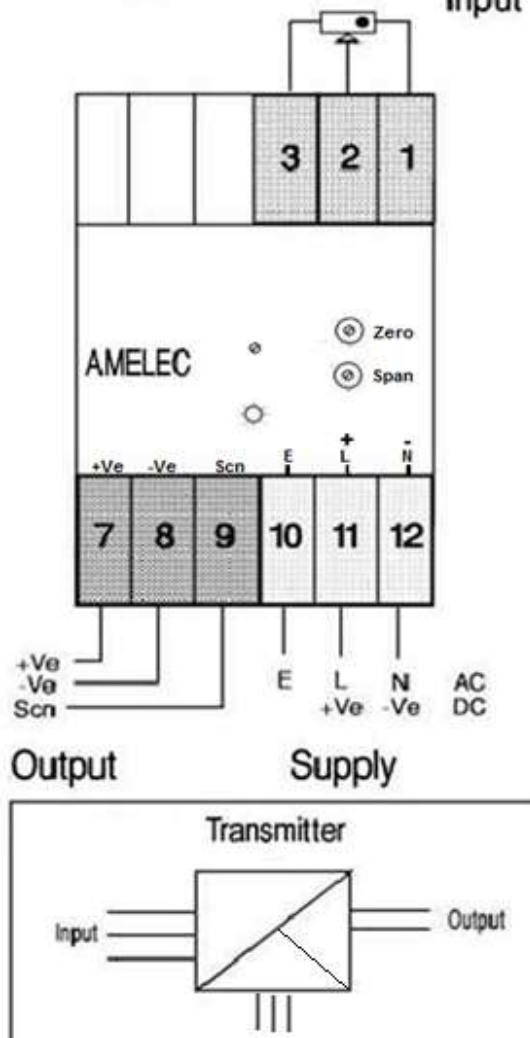
Operating Ambient: -15 to +55°C

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)

WIRING



Dimensions/Mounting

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

('K' option alocromed enclosure = 182d mm)

Mounting: Either Din Rail (TS35) as std **or**
Surface by rear Keyhole plate (50w x 130h mm)

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