

ADM240XLRP Resistance / Potentiometer Transmitter / Controller

- 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
- Front fascia LCD/LED Digital Display 'DI' options available
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)

Technical Specifications

Input 1

Resistance/ Slidewire/ Potentiometer input ranges up to 20K Ω , 2 or 3 wire pot input connections.
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).

Input 2

Normally Open contact; either Close to Hold the output signal level, or drive to a pre-determined output level & hold.

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

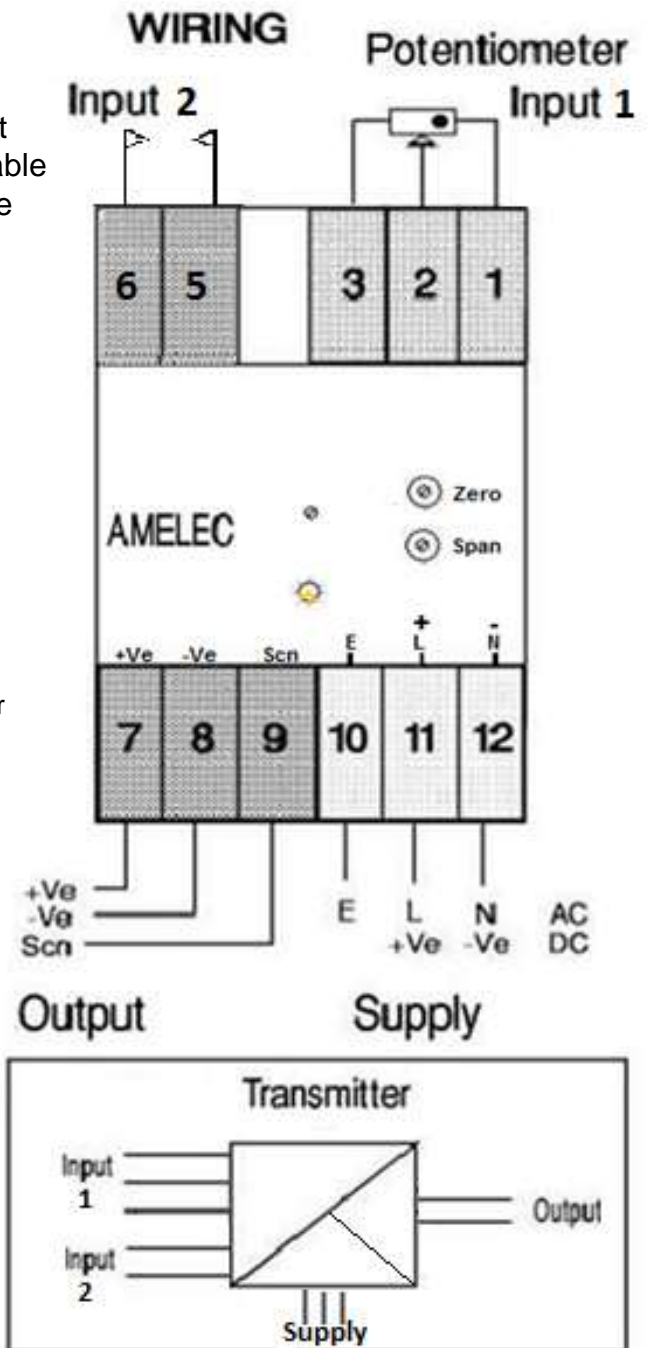
1000V RMS* Input(s)/Output/Supply/Earth
*(500Vdc when RFI option 'K' is specified)

Performance

Accuracy/Linearity: < $\pm 0.1\%$ 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 $^{\circ}$ 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; to the highest Generic Industrial levels)
RoHS: 2011/65/EU



Dimensions/Mounting

Enclosure: 50w x 75h x 110d mm (k option=182d mm)
Mounting: Din Rail (TS35) **or** Surface (corner fixing holes)

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