

## ADM222K-4wire RTD Signal Trip Transmitter

- Suitable for SIL 1 & SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options: 115Vac  $\pm 20\%$   
240Vac  $\pm 20\%$   
24Vdc  $\pm 10\%$   
48Vdc  $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010
- 24Vdc @22mA two-wire Input loop Excitation optional ('M')
- Non-Smart/Non-uProcessor based instrument (Type A)
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

Any 4 wire PT100 resistance temperature sensor as standard.  
(PT130 / PT500 / PT1000 sensor input options available on request)

#### Typical Input ranges

-15 to +25°C, 0-50°C, 0-100°C, 0-150°C PT100, 4-wire connection

#### Analogue Output

Any standard process current or voltage signal. Current source up to 20mA. with Drive voltage 11Vdc. Current sink up to 20mA, with External Drive  $\leq 30$ Vdc. Voltage source up to 10V, max current 20mA. Typically: 4-20mA (max load 550 $\Omega$ ) or 0-10Vdc (min load 500 $\Omega$ ).

#### Trip Output

A set of double pole changeover contacts, rated at 250VAC, 2A, 100VA (resistive). Latching relay option 'L' available with Local or Remote Reset. Red LED indication of Relay status, ON Energised/healthy, Extinguished in Trip De-energised state as standard.  
(Red/Green BI-colour LED optional)

#### Performance

Isolation: 500Vdc Input/Output/Contacts/Supply/Earth

Accuracy/Linearity:  $\pm 0.1\%$  resistance span as std  
(Output Linearised to Temperature option 'G' also available)

Trip settability:  $\pm 1\%$

Trip repeatability:  $\pm 0.1\%$

Deadband: 1% span as std (adjustable 1-20% span optional 'V')

Response time:  $< 400$ mS as std (0-100% input step change)

Supply consumption:  $< 4$ VA

Input O/C response: Upscale drive as standard

(O/C Downscale drive option 'X' available if required)

Fail Safe Relays: De-energise on Trip & Loss of Power as std

#### Environmental Conditions

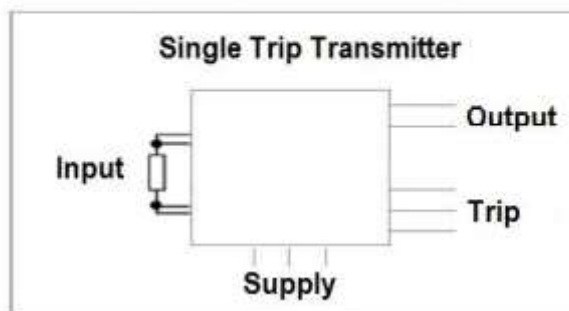
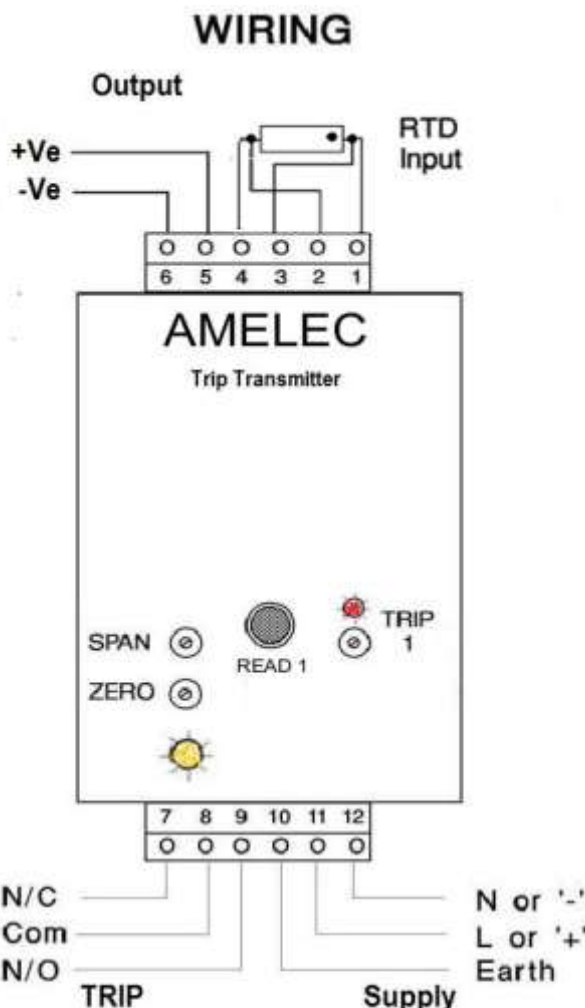
Storage Temperature: -40 to +70°C

Operating Ambient: -15 to +55°C

Relative Humidity: 5 – 95% RH (Non-condensing)

EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial)

RF Immunity: 20MHz-3GHz/5.25GHz  $\leq 10$ V/m,  
(80MHz-1GHz/5.6GHz  $\leq 30$ V/m, 889MHz/1.75GHz  $\leq 40$ V/m).



#### Mounting/Dimensions

DIN Rail (TS35) as standard

Enclosure Dimensions: 50w x 75h x 182d mm.

Surface by rear seismic Keyhole plate (50w x 130h mm) option also available

#### Customer Termination

Fixed screw terminals as standard  
(Plug-in screw terminals optional)

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