

## ADM226DI RTD Trip / Transmitter with Display

- Suitable for SIL 1 & SIL 2 rated (EN61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart/Non-uProcessor, Type 'A' instrument
- Supply voltage options:
  - 115Vac  $\pm 20\%$
  - 230Vac  $\pm 20\%$
  - 24Vdc  $\pm 10\%$
  - 48Vdc  $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- 3.5 Digit LCD as std, up to 4.5 digit Red LED Display
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

From 2 or 3 wire RTD sensor (PT100) with a span greater than 25°C. Third wire compensation as standard to overcome lead resistance variation. (4-wire RTD with C.O contact outputs & PT130, PT500 or PT1000 input options also available on request)

#### Analogue Output

Any standard process current or voltage signal. Current source up to 20mA with Drive voltage 11Vdc, Current sink up to 20mA,  $\leq 30$ Vdc External drive, Voltage source upto 10Vdc, max current 20mA. Typical Output options: 0-20mA or 4-20mA (max load 550 $\Omega$ ), or 0-5Vdc (min load 250 $\Omega$ ) or 0-10Vdc (min load 500 $\Omega$ )

#### Relay Outputs

The 2/3wire input unit has two 1 x SPCO & 1 x C.O (N.C or N.O) trip output contacts, rated at 250VAC, 3A, 100VA (resistive) as std. (SPCO contacts also available for Trip 2 with DC supply options) Red LED indication of each Relay status, Extinguished in Trip state. Display of the input signal on a 3½ digit LCD, with front fascia Read buttons to show the trip set points. Display Calibration anywhere in the range of: -1999 to +1999.

#### Performance

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

Accuracy/Linearity:  $\pm 0.1\%$

Trip settability:  $\pm 0.1\%$

Trip repeatability:  $\pm 0.1\%$

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

Supply consumption: <4VA

Input O/C response: Upscale drive as std

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

'K' option RF Immunity: 20MHz-3GHz/5.25GHz 10V/m,  
80MHz-1GHz/5.6GHz 30V/m, 889MHz/1.75GHz 40V/m

#### Environmental Conditions

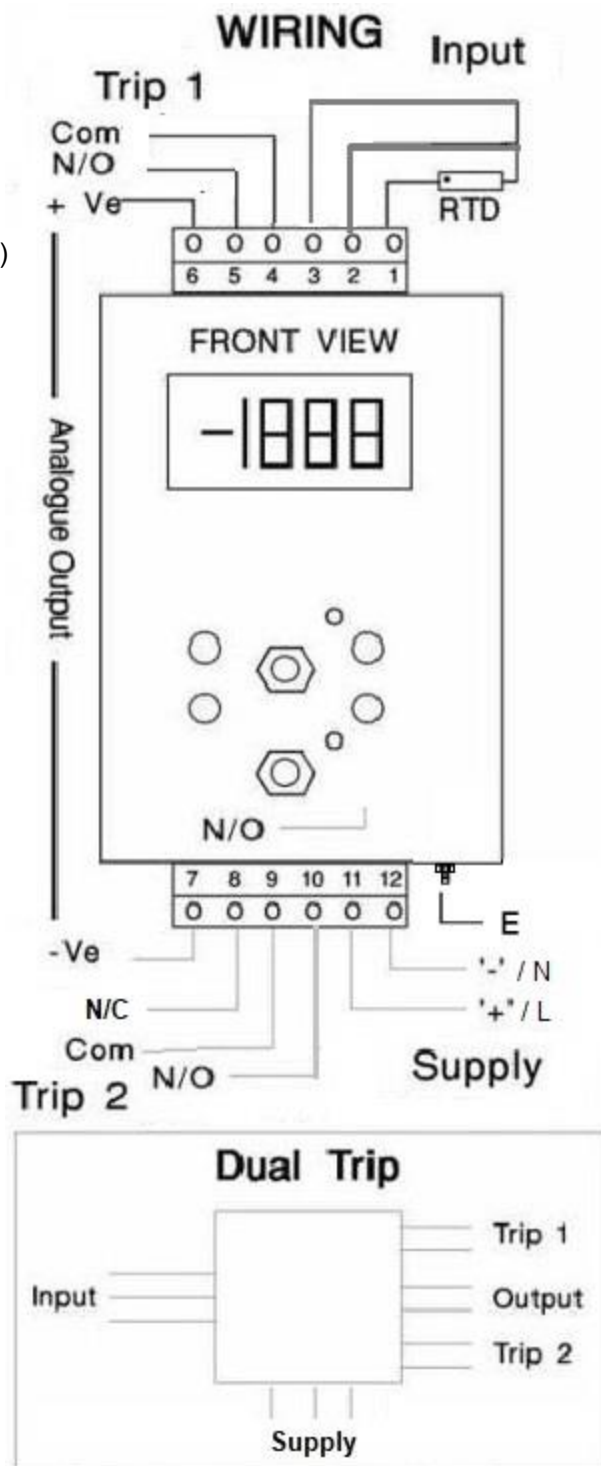
Storage Temperature: -40 to 70°C

Operating Ambient: -15 to 55°C

Relative Humidity: 5 – 95% RH

EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)

('K' option to the highest Generic Industrial levels)



**Mounting:** DIN RAIL (TS35) as std.  
Surface/Seismic Keyhole plate & Front of Panel mounting options also available.  
(Rear seismic mounting plate Dims: 50w x 130h mm)

**Dimensions:** 50w x 75h x 145d mm  
(‘K’ option enclosure = 182d mm)