

ADM226DI RTD Trip / Transmitter with Display (LCD + Toggle)

- 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	±20%
230Vac	±20%
24Vdc	±10%
48Vdc	±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- 3.5 Digit LCD as standard (up to 4.5 digit Red LED Display optional)
- 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, $\leq 30\text{Vdc}$
External drive, Voltage source upto 10Vdc, max current 20mA.
Typical Output options: 0-20mA or 4-20mA (max load 550 Ω), or 0-5Vdc (min load 250 Ω) or 0-10Vdc (min load 500 Ω)

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, 2A, 100VA (resistive) as standard. (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 Toggle switch to show each of the trip set points within the same scale..
Display Calibration anywhere in the range of: -1999 to +1999.

Performance

Isolation:1000V RMS* Input/Output/Contact/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 (Non-Condensing)

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

(‘K’ option to the highest Generic Industrial levels)



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

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

Other additional Options available::

'G' – Additional Linearisation to temperature if required
'T' – Fixed or Variable Time Delays into Trip