

ADM222DI RTD Trip Transmitter / Isolator

- 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 available ('K' option)
- 3.5 Digit front fascia LCD as standard, up to 4.5 LED display optional
- Non-Smart/Non-uProcessor based, Type A instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Input

PT100 2 or 3 Wire connection RTD. Any temperature range with a span greater than 25°C may be specified as standard.
(PT1000 input & 4 Wire input options are also available)

Analogue Output

Any standard process current or voltage range may be specified
Current source up to 20mA. Drive voltage 11Vdc
Voltage source up to 10V. Max current 20mA

Typical Output: Current: 4-20mA (Active port, max load 550Ω) or
Voltage: 0-10Vdc (min load 500Ω)

Trip Output

S.P.C.O Relay contacts, rated at 250VAC, 3A, 100VA (resistive)
High Temperature Trip option, relay De-energises above set point
Low Temperature Trip option, relay De-energises below set point.
Red LED Relay status indicator: ON Energised / Healthy state,
Extinguished in De-energised/Trip state as standard.

Isolation

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

Performance

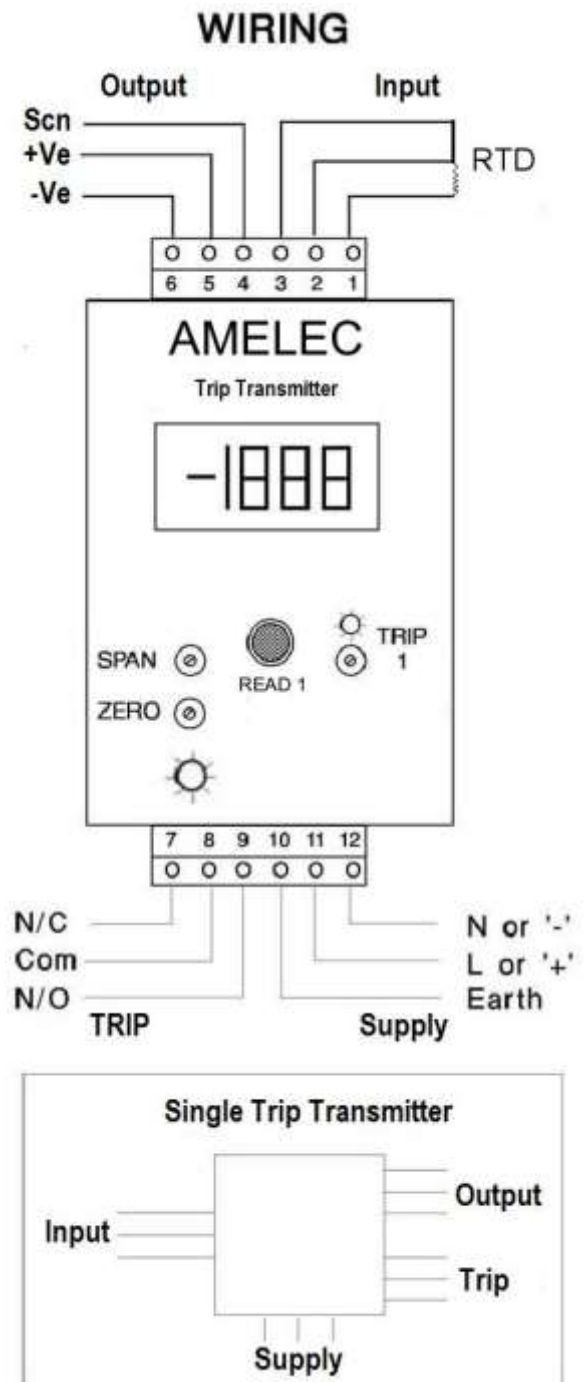
Accuracy/Linearity $< \pm 0.1\%$ resistance span as standard
(Linearisation to Temperature option 'G' available)
Input open circuit response Upscale drive as standard
(O/C Downscale response option 'X' available)
Relay: De-energise on Trip, Fail Safe on loss of power as standard

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

Dimensions

50w x 75h x 146d mm as standard
(50w x 75h x 182d mm when 'K' option specified)



Mounting

DIN Rail (TS35) as std, Surface by Seismic Keyhole plate & Front of Panel mounting options also available.
(Surface mounting plate Dims: 50w x 130h mm)

Customer Termination

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

Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ