

## ADM222 RTD Temperature 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 ±20%
  - 240Vac ±20%
  - 24Vdc ±10%
  - 48Vdc +10%
- RFI Protection to EM 61000-4-3:2006/A2:2010 available - 'K' option
- Front fascia Digital Display available - 'DI' option
- 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).

#### Typical Input

0-100°C or -10°C to +30°C, PT100 3-wire connection

#### Output

Any standard process current source (up to 20mA), Drive voltage 11Vdc, max 550ohms load at 20mA. Voltage source up to 10V, min 500ohms load

#### Trip Output

A set of changeover contacts rated at 250VAC, 2A, 100VA (resistive). Fail Safe Relay De-energises on Trip & on Loss of Power. Red LED indication of Relay Status on front fascia; Extinguished in Trip/De-energised state. Hysteresis: Fixed nom 1% span as std, other fixed or Variable Deadbands available on request.

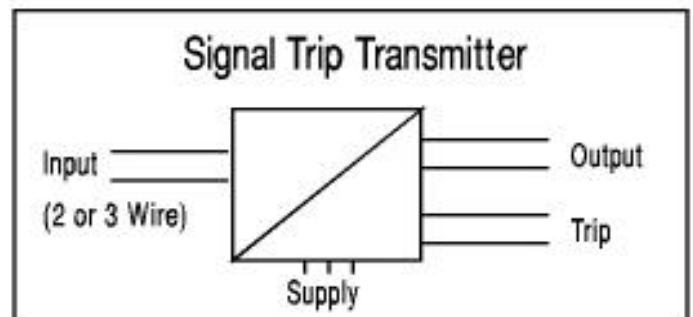
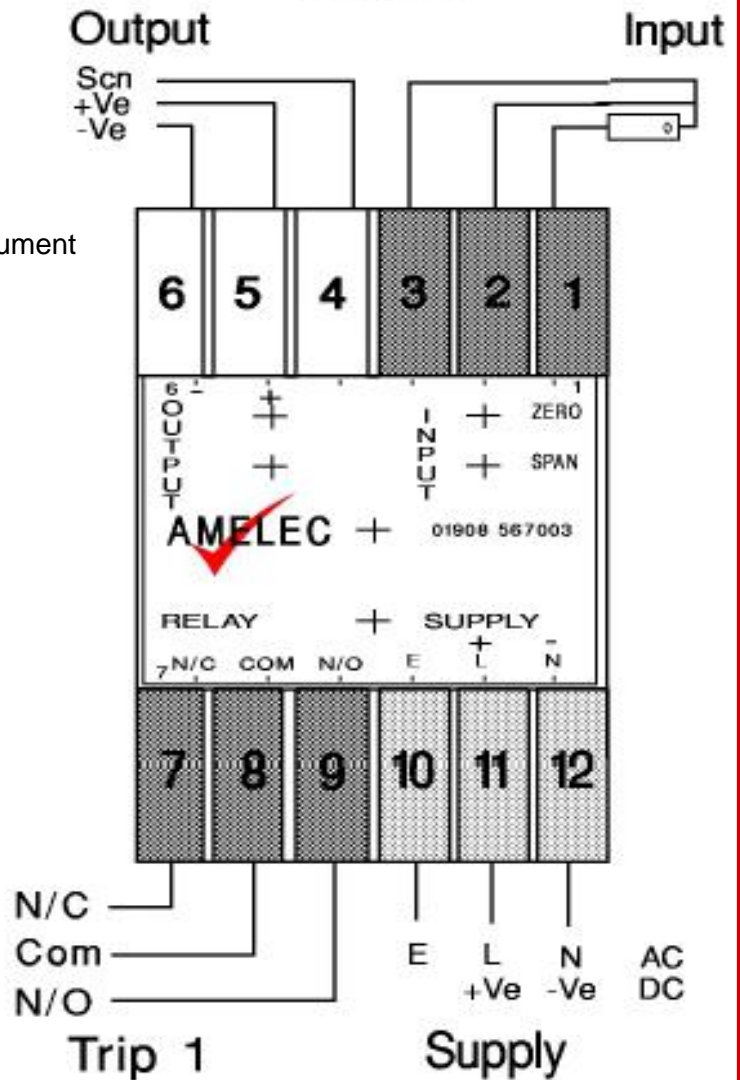
#### Performance

Response time: <400mS as std (0-100% input step change)  
 Input open circuit response Upscale drive as std (O/C response Downscale drive available – 'X' option)  
 Accuracy/Linearity: <±0.1% resistance span  
 Trip settability: <±1%  
 Trip repeatability: <±0.1%  
 Supply consumption: <3VA  
 Isolation: 1000V RMS\*. Input/Output/Contacts/Supply/Earth \*(500Vdc when option 'K' is specified)

#### 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)

### WIRING



#### Mounting / Customer Termination

Either Din Rail (TS35) **or** Surface by corner fixing holes, with Fixed screw Terminals as standard

Dimensions: 50w x 75h x 110d mm ('DI'=145d/'K'=182d mm)

Tel: 01908-567003 Email: [sales@amelec-uk.com](mailto:sales@amelec-uk.com)

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