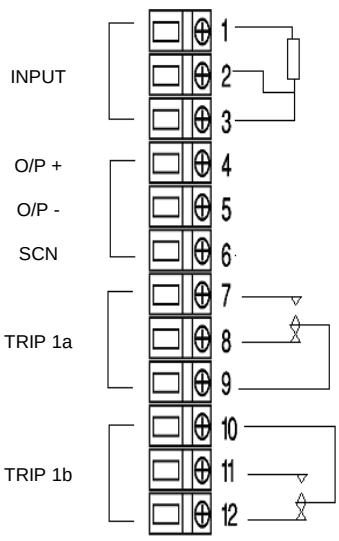
AHM 722 URENCO RTD Trip Transmitter

- Suitable for SIL 1, SIL 2 & SIL 3 rated (IEC61508) safety system loop applications
- Supply voltage 21 to 30Vdc
- RFI Protection to IEC61000-4-3:2006/A2:2010 available
- AMELEC Standard 10 year warranty

Rear Termination TB1 – TB19
(TB4-TB19 in common 'DI' Rack)



FRONT VIEW

TECHNICAL SPECIFICATION

FUNCTION

Temperature input signal Converter / Isolator

INPUT

Any 2, 3 wire resistance temperature sensor.
Lead resistance compensation as standard.

Typical input: 0 – 200 Deg℃ / PT100 3 wire RTD

OUTPUT

DC current or voltage specified in the range of:
Current: up to 100mA max in Sink configuration (externally powered) up 22mA max Source configuration (Internally powered). Typical output range: 4 - 20mA (Source)

Voltage any from 0.4 to 20V max @ up to 20mA.

The Trip output is a pair of changeover contacts DPCO, rated at 250VAC, 3A, 100VA (resistive).

CONTROLS

DIZ/DIS: 15 turn potentiometers to calibrate Read signal on remote display (**N.B:** Any adjustment also affects output signal, so must calibrate remote display Before calibrating the Output)

Zero / Span: 15 turn potentiometers to calibrate Output (Only)

Trip Set point: 15 turn potentiometer to set the Trip point within set Input range.

INDICATOR

Amber Led: Power ON indicator
Red Led: Relay status indicator (ON Energised as std)

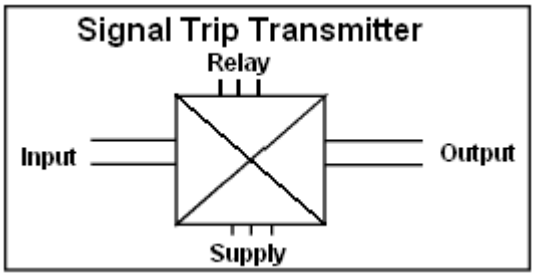
PERFORMANCE

Response time: Typically < 400mS
Linearity : ±0.1%
Trip settability / repeatability: < ±0.1%

PROTECTION

Isolation 1000V RMS*. Input/Output/Supply
*500VDC if RFI option (K) is specified.
Internal Fuse.
Fail safe on loss of power
Input over range typically at 300%.
Output Saturation 125%

FUNCTION BLOCK DIAGRAM



ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Card 3U high 4E wide
Mounting 19" rack / 84E wide (See rack GA for details)
Card weight < 200g

ADD ON / OPTIONS

J : Input injection jack socket
P: Test point (Trip set point monitoring)
K: RFI protection to IEC61000-4-3:2006/A2:2010
Non standard Power supply ranges available