

AHM 712 Thermocouple Temperature Trip Transmitter

- Suitable for any BS4937 Thermocouple input
- Supply voltage 21 to 30Vdc
- Powered by rack common supply BUSS
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

TECHNICAL SPECIFICATION

FUNCTION

Temperature input signal Converter / Isolator

INPUT

Can be configured to accept mV signal from thermocouple Type S, R, B, J, K, T, E, N and other special types also available on request.

Automatic Cold Junction compensation fitted as standard.

Typical input: 0 – 500 Deg ℃ / TC type "K"

OUTPUT

DC current or voltage specified in the range of: Current up to 100mA max in Sink configuration (externally powered)

Current up 22mA max Source configuration (Internally powered)

Voltage any from 0.4 to 20V max @ up to 20mA. Typical output range: 4 - 20mA (Source)

The Trip output is a changeover contact SPCO, rated at 250VAC, 2A, 100VA (resistive).

CONTROLS

Zero / Span: 15 turn potentiometers to calibrate Output. Set point: 15 turn potentiometer to set Trip point within set Input range.

INDICATOR

Amber Led: power ON indicator Red Led: Relay status indicator

PERFORMANCE

Response time: Typically < 400mS

Linearity: ±0.1%

Trip repeatability: < ±0.1% Trip settability: < ±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%

TERMINATION

Ф INPUT + INPUT -⊕ ZERO SCN SPAN O/P + O/P -SCN TRIP \oplus θ POWER 10 FARTH L or + TAG No

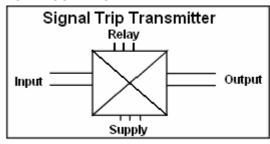
FRONT VIEW

TRIP

0

FUNCTION BLOCK DIAGRAM

N or -



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

DI: Common LCD display for local monitoring

J : Input injection jack socket

P: Test point (Trip set point monitoring)

K: RFI protection to IEC801-3

Non standard Power supply ranges available