

AHM710-P-RIS Thermocouple Temperature Transmitter

- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage 21-30Vdc
- AMELEC Standard 10 year warranty
- Suitable for SIL 1, 2 & 3 rated (EN 61508-2) safety system loop applications
- RIS SC8326W/8327 Series Replacement card.

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.
(External compensation option available)

Typical input: 0 – 500 Deg °C / 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 to 22mA max Source configuration (Internally powered)
Voltage up to 20V max @ up to 20mA.
Typical output range: 4 - 20mA (Active port, 600ohms max load)

CONTROLS

Zero / Span: 15 turn potentiometers to calibrate Output.

SUPPLY VOLTAGE

Nom 24Vdc Buss line within RIS Rack Backplane.

TEST POINTS

O/P Test Point on Front Fascia allows for monitoring of the output signal
(supplied with Test Plugs on flying leads)

INDICATOR

Amber Led: power ON indicator

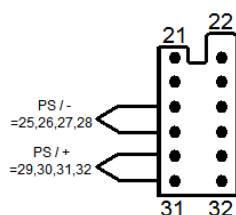
PERFORMANCE

Response time: Typically < 400mS (0-100% input step change)
Accuracy/Linearity : $\pm 0.1\%$ mV span

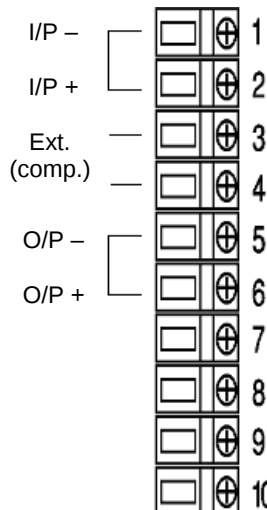
PROTECTION

Isolation 1000V RMS*. Input/Output/Supply/Earth
Internal Fuse.
Input over range typically at 300%.
Output saturation 125%

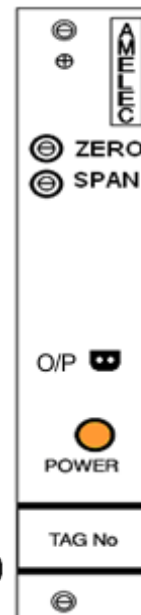
Internal 24Vdc SUPPLY BUSS



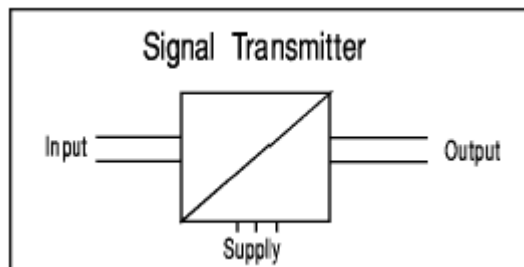
RIS Back Plate TERMINATION



FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH (Non-Condensing)
EMC: 2014/30/EU , EN 51326-1: 2013 (Controlled EM)

MOUNTING / DIMENSION

Card with 3U high 4E wide front plate
Mounting 19" rack / 84E wide (3U high RIS rack))
Card weight < 200g

ADD ON / OPTIONS

J : Input injection jack socket
G: Linearisation to Temperature