

ADT112KX-P-RIS-ET7205 Thermocouple/ mV Trip Amplifier

Suitable for SIL 1, SIL 2 or SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications

Supply voltage options: 115Vac ±20%

> 230Vac ±20% 24Vdc ±10% 48Vdc ±10%

- RFI Protection to EN 61000-4-3:2006/A2:2010
- LCD/LED Digital Display options available ('DI' option)
- Non-Smart/Non-uProcessor based, Type 'A' instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any mV signal range up to 400mV, or mV signal developed from any thermocouple type; J, K, N, R, S, T, with a minimum 4mV span. Automatic cold junction compensation fitted as standard.

Each trip output is a pair of either N.O or N.C contacts, (TBA at time of orders), rated at 250VAC, 3A, 100VA resistive as standard

Relay Status Indicators

Red LED indicator for each Trip point; Extinguished in Energised/healthy state. ON in De-energised/Tripped state

1% Span as std (other fixed Hysteresis bands available on request)

Controls/Test Points

Zero / Span: 15 turn potentiometers, used to set internal reference 0.1 - 2.1Vdc for 0 to 100% input range.

Trip Set Points: 15 turn potentiometers, used to set trip points

anywhere over the 0 to 100% input range

Test Points: Input signal & trip set points can be monitored using the front fascia Test Points, 0.1 – 2.1Vdc over 0 to 100% input range (Test plug with 1metre flying lead supplied FOC on request)

Protection

Isolation: 500Vdc Input/Contacts/Contacts/Supply/Earth

RF Immunity: 20MHz-3GHz/5.25GHz <10V/m,

(80MHz-1GHz/5.6GHz <30V/m, 889MHz/1.75GHz <40V/m)

Internal Fuse

Performance

Trip settability: ±0.1% Trip repeatability: ±0.1% Response time: <200mS

Input Open Circuit response: Upscale drive as standard

(O/C Downscale drive available on request)

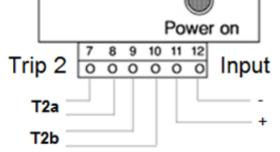
Environmental Conditions

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

EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)

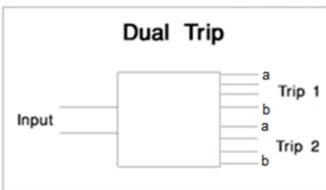
WIRING Supply Trip 5 4 3 **AMELEC** Front View TRIP 1

Ø) TRIP 2



SPAN

ZERO (6)



Dimensions/Mounting Options

Dimensions: 50w x 75h x 182d mm Mounting: Din Rail (TS35) as standard.

Surface by Seismic Keyhole plate option available on request (mounting plate Dims: 50w x 130h mm)

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