RTD INPUT 4-WIRE ISOLATED TRANSDUCER

RTT-4

FOUR ZONE GALVANIC ISOLATION

HIGH ACCURACY

EXCELLENT STABILITY

MINIMUM INPUT SPAN 15°C

MULTI RANGE

3-YEAR WARRANTY



The **RTT-4** is a 4-wire transducer which converts the measuring resistance of RTD probe into a standardized loadindependent signal which is linearly proportional to the input temperature.

The **RTT-4** transducer provides excellent Pt-100 linearization as well as lead resistance compensation.

The **RTT-4** transducer, as a resistanceto current, converter can be altered easily to measure up to 400 ohm resistors by inhibiting the Pt –100 linearization feedback.

The **RTT-4** unit can be powered either from a 220/115Vac source or from a 12-30 Vdc source.

The transducer's four zones: Input, output, mains supply and DC supply are all galvanically isolated from each other.

The **RTT-4** is provided with two Simultaneous out puts: current output and voltage output. The current output can be selected as: 4-20mAor 0-20mA. The voltage output can be selected as: 0-5V, 0-10V, 1-5V or 2-10V.

The **RTT-4** is ranged by a front accessed Internal resistor header. By setting four resistors, the **RTT-4** can be ranged to any Zero-Span configuration within it's limits.

The **RTT-4** transducer is housed in a polycarbonate enclosure. Front terminal accessibility allows maximal stackability of the units for maximum space saving.



SPECIFICATIONS

INPUT: RTD. Pt-100, Pt-200, Pt-500, Pt-1000

MIN INPUT SPAN: 15°C. (for Pt-100 input)

MAX INPUT SPAN: 750°C (for Pt-100 input)

LEADS COMPENSATION EFFECT: Less than 0.05 °C. error for 10 ohm leads resistance

OUTPUT: Current : 0-20 / 4-20mA Voltage: 0-5 / 1-5V, 0-10 / 2-10V

PERMISSABLE OUTPUT LOADS: For Voltage out: 0-5 / 1-5V: > 500 Ω 0-10 / 2-10V: >1k Ω

For Current out mode: AC supply (line-10%): <630 Ω For nominal voltage: <820 Ω

DC supply: $12V : <\!\!280 \ \Omega$ $24V : <\!\!920 \ \Omega$ $30V : <\!\!1100 \ \Omega$

POWER SUPPLY: Mains: 200-265Vac / 100-130Vac, 45-70 Hz DC: 12-30 Vdc Min DC supply (for 10V output): 16 Vdc

POWER CONSUMPTION: at max. AC supply- 2.3W

CURRENT CONSUMPTION: Max 55mA (full loads) DC supply typ. 44mA (DC supply & current output)

ORDERING INFORMATION:

SUPPLY AND LOAD VARIATION EFFECT: < 0.03% (for full change)

ISOLATION (Input / output / Line supply / DC supply): 600 Vdc or peak AC

RESPONSE TIME: 320mS (0-98%)

ACCURACY (Combined effect of linearity, hysteresis and Repeatability): Better than ±0.08% of span

LINEARITY: Better than 0.1% of span

ADJUSTABILITY: ZERO: ±35% of span min. SPAN: ±30% of span min.

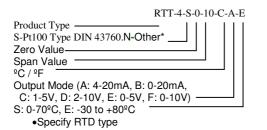
CMR: 132db typ., 127db min.

TEMPERATURE STABILITY: Zero drift: typ. 0.01% / °C Span drift: Better than 0.01% / °C

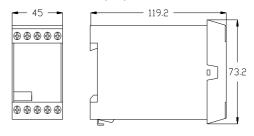
OPERATION TEMPERATURE: 0-70°C (std.), -30 to +80°C (opt.)

HOUSING: Plastic polycarbonate Box: IP 50 DIN 40050 Terminals: IP 20 DIN 40050

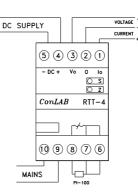
MOUNTING: Standard DIN rail



DIMENSIONS (mm)



CONNECTION DIAGRAM:





data subject to change without notice

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