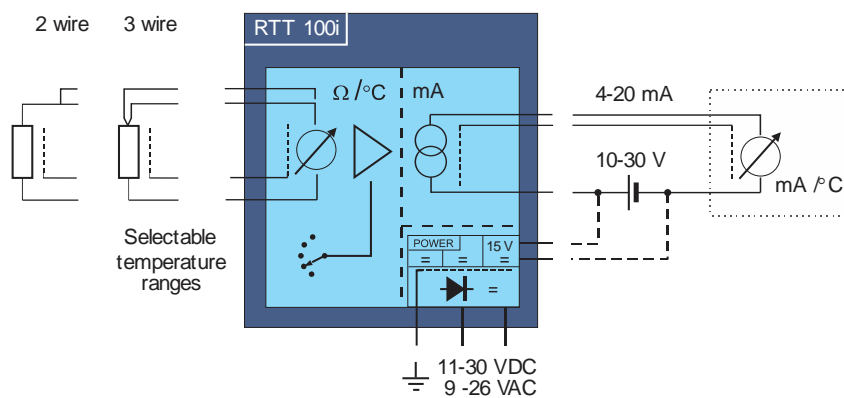


# RTT 100 (i) current-loop transmitter for PT100 RTD

RTT 100(i) transmitter converts RTD resistance value of PT100 temperature element into loop-current value for accurate transmission on long distance lines. Linearization of RTD curve is applied for excellent linear output. Transmitter works in several user selectable temperature ranges, covering most standard industry applications. Non-isolated type is powered from current loop, while isolated one integrates AC/DC-DC converter to power device and loop optionally.

Rail mounted housing is suitable for industry cabinet use.



## FEATURES

- PT100 RTD input
- 2/3 RTD wire connection
- 4 user selectable, calibrated temperature ranges
- Linearised 4-20 mA current output
- Loop resistance up to 1500  $\Omega$
- Polarity independent
- High accuracy
- Loop powered / integrated isolated 10...30V AC/DC power supply
- Integrated overvoltage and surge protection
- DIN rail mounting

## TECHNICAL SPECIFICATIONS

OVERALL	
Power supply	Loop powered; *11 - 30 VDC / 9 - 26 VAC
Galvanic isolation; capacitance*	> 500 VAC; < 100 pF* #2500 VAC ; < 100 pF* on request
Power consumption*	< 1 W*
Temperature range	-30 ... +50°C
Protection degree	IP20
Dimensions (W x H x D); weight; rail mounting	22 x 92 x 69 mm; 235 g; EN 60715
RTD RESISTANCE INPUT	
RTD compatibility ; connection	PT 100; 2/3 wire
RTD wire loop resistance ; current	Max. 200 $\Omega$ ; < 0,8 mA
Temperature ranges	-10...50 °C / -20...150 °C / -20...300°C / -50...600°C
CURRENT LOOP OUTPUT	
Output ; voltage ; polarity	4-20 mA ; 10 - 30V ; unipolar
Accuracy ; linearity	0,3 %; > 0,2%
Max. loop resistance	1500 $\Omega$ ; 1000 $\Omega$ *

\*Isolated type RTT100i

## APPLICATIONS

- PT 100 RTD transmission over long distances
- PT 100 RTD linearisation
- Temperature control and monitor
- RTD isolation /isolated type
- Ground loop cancellation /isolated type