

TRTE TEMPERATURE TRANSMITTERS

Analog 4-20mA microprocessor transmitters with configurable inputs scale ranges suitable for temperature RTD sensors. The electronic device converts Pt100 Platinum variations at input(100 ohm at 0°C) to one linear signal on two wiring current sinking loop.

Linearization with digital technique grants the best accuracy and stability.

Setting up of the 4-20mA or reversing 20-4 mA current output for any temperature range within -200°...to +650°C, minimum span of 25°C, made by one key button only. Led indicator flashing on alarm due to override, sensor faulty, short circuit, or drives the user during the input range programming mode. Reverse polarity protection.



DESCRIPTIONS

TRTE788 embedded mounting into circular head DIN B- 43729. Process applications

TRTE9881 blind, or **TRTE9882** LCD displayed height10mm, box clip on DIN rail 35mm

TRTE786 wall mounting. HVAC applications

TECHNICAL SPECIFICATIONS

Input	TRTE 788 - 786 - 9881	TRTE 9882
Sensor:	RTD Pt100 (100 Ohm)	
Connection:	3 (or 2) wires	
Linearization:	EN60751, IEC751 BS1904 (alfa=0.00385)	
Sensor current:	<1mA	
Range:	-200...+650°C	
Factory Range:	0...100°C	
Minimum amplitude measurement:	25°C	
Influence wires connection:	negligible with coupled wires	
Conversion speed:	2 measurements per second	
Accuracy (reading value):	±0.1°C ±0.1% (-100+500°C), ±0.2°C ±0.2% (-200+650°C)	
Sensibility:	0.01°C/°C	
Operating temperature:	0...70°C	
Storage temperature:	-40...+80°C	
Output:	4-20mA (or 20-4 mA), 22 mA for programming or incorrect temperature out of range	
Resolution:	4 µA	4 µA analog, Display 0.1°C display up to 200°C, 1°C over
Power supply:	7 ... 30Vdc (protection against reverse polarity)	
Red Led:	Switched on during programming or set temperature out of range	



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