

● Characteristics

0630 - RTD - TC - RESISTANCE THERMOMETER - THERMOCOUPLE - PROGRAMMABLE -



- RTD:	Pt100 / Ni100
- Thermocouple:	Type K, S, R, J, T, N, B, E
- Voltage:	-10...70 mV
- Output:	4...20 mA, galvanically insulated
- Supply:	6...32 VDC out of current loop
- Transmission error:	maximum 0,1% FS or 0,2 °C
- Configuration:	RFID configurator
- Connection:	Terminal screws
- Protection:	IP20
- Dimensions:	18x90x64 mm
- Enclosure:	Synthetics PA66

● Technical data

Input

RTD:	Pt100:	Temperature range:	-200...+600 °C
		Resistance range:	18,5...314 Ω
		Connection:	2-, 3-, 4-wire
	Ni100:	Temperature range:	-60...+180 °C
		Resistance range:	69,5...223 Ω
		Connection:	2-, 3-, 4-wire
Thermocouple:	Type K:	Measuring range:	-260...1360 °C
	Type S:	Measuring range:	-40...1760 °C
	Type R:	Measuring range:	-40...1760 °C
	Type J:	Measuring range:	-200...1200 °C
	Type T:	Measuring range:	-260...400 °C
	Type N:	Measuring range:	-260...1280 °C
	Type B:	Measuring range:	40...1820 °C
	Type E:	Measuring range:	-260...940 °C
Voltage:		Measuring range:	-10...+70 mV
Cable resistance:	Maximum 20 Ω		

Output

Current signal:	4...20 mA, galvanically insulated, linearization		
Connection:	2-wire		
Signal on error:	21,5 mA or 3,8 mA (adjustable)		
Range output:	Overflow:	Final value +5 °C	
	Underflow:	Zero value -5 °C	
Output protection:	ca. 30 mA		
Logging function:	non-volatile memory (2624 words), sampling rate adjustable		

Ambient conditions

Operating temperature:	-40...85 °C
Storage temperature:	-40...105 °C
Air humidity:	30...90% rH (40 °C, non condensation)

● Applications

The transmitter is suitable in all areas where temperatures have to be measured. It is operated in a 2-wire current loop and can be customized on the application with a RFID configurator and an additional software..



● Technical data (Continued)

Measuring amplifier

Resolution:	16 bit (2 μ A)
Transmission error:	maximum 0,1% FS or 0,2 °C
Sampling rate:	300 ms
Response time t90:	ca. 600 ms
Temperature coefficient:	<100 ppm
Filter:	50...60 Hz
Influence EMC:	<0,5%
Configuration:	RFID configurator (NFC) Rescaling of 4...20 mA on available input signal Adjustment of zero and gain via key
Isolation voltage:	1 kV AC

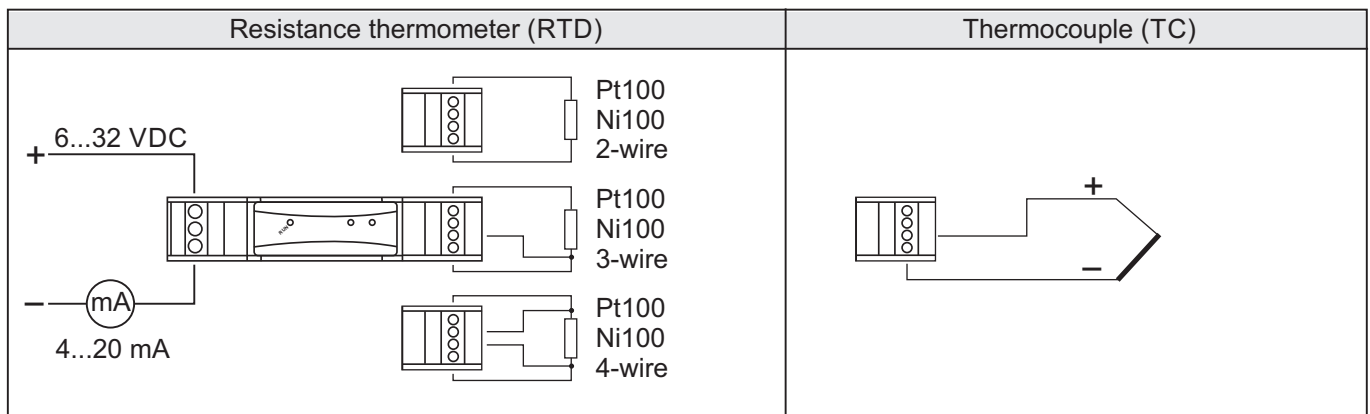
Supply

Voltage:	6...32 VDC
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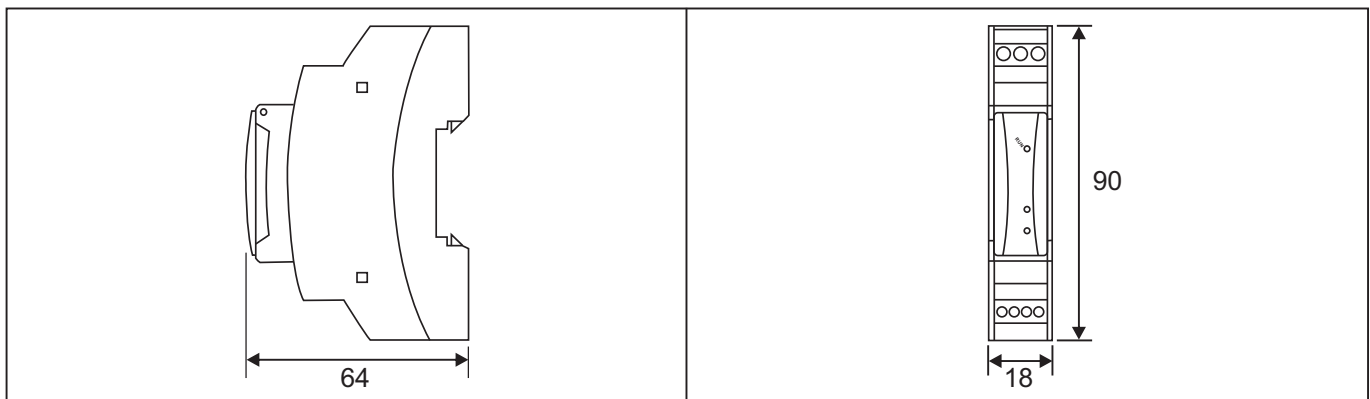
Mechanics

Enclosure:	Dimensions:	18x90x64 mm
	Material:	Synthetics black (PA66)
Protection:	IP 20	
Electrical connection:	Terminal screws	
	Cross-sectional area:	1 mm ²
	Strip length:	8 mm
Weight:	ca. 50 g	
Conformity:	EN 61000-6-4, EN 61000-6-2	

● Electrical connection



● Dimensions (in mm)



● Order numbers

TP-TC:	Transmitter Temperature with factory configuration (RTD Pt100, 3-wire, 0...150 °C) with customized configuration (please indicate)	Order-No.: 600-00533 Order-No.: 600-00535
DEV-RP:	RFID configurator, cable, software	Order-No.: 1310-00383

Subject to change, version 42-422