

SRT-147

- temperature meter with a large <u>4 x 38 mm display</u>
- input: thermoresistance or thermocouple
- 0, 2 or 4 REL / OC outputs
 - analogue output: active or passive, power supply output: 24V DC RS-485 / Modbus RTU
- automatic recognition of 3 and 4-conductor connection (RTD inputs)
- automatic compensation of TC cold ends temperature
- free configuration software S-Config

The **SRT-147** meter is designed for temperature measurements. The main advantage is large 38 mm high LED display. The device is equipped with one resistance-type Pt100/500/1000 input or thermocouple input which can operate with K, S, J, T, N, R, B, and E type thermocouples. The inputs feature with fully linearized characteristics. The 24V DC / 100 mA output is designed to supply measuring transducers, and the RS-485 port enables data transmission in production process monitoring systems. The REL / OC control outputs can adjust the level of measured signal and are controlled according to one or two threshold values. Moreover, the meter can be equipped with analogue outputs, according to the customer selection: active current output, passive isolated current output or active voltage output. The meter can be configured with the local keyboard or free S-Config software via the RS-485 communication port.

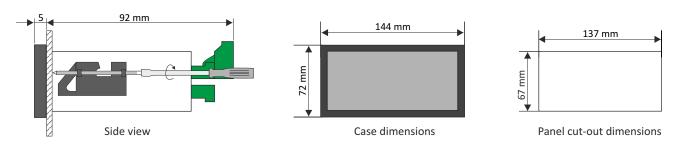
TECHNICAL DATA

Power consumptionIf >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>								
Displayed values-999 ÷ 9999 ÷ decimal pointInputthermoresistance: Pt100, Pt500, Pt1000 (automatic recognition of 3 and 4-conductor connection, resistance compensation of connecting conductors 0 ÷ 20 0 at any conductor); measuring range: -100°C ÷ 600°C; resolution: 0.1°C thermocouple: type K, S, J, T, N, R, B, E; measuring range: K: -200°C ÷ +1320°C; S: -50°C ÷ +1768°C; J: -210°C ÷ +1200°C; r: -200°C ÷ 400°C; N: -200°C ÷ +1300°C; S: -50°C ÷ +1768°C; B: +250°C ÷ +1820°C; E: -200°C ÷ +1200°C; r: -200°C ÷ 400°C; N: -200°C ÷ +1300°C; R: -50°C ÷ +1768°C; B: +250°C ÷ +1820°C; E: -200°C ÷ +1200°C; r: -200°C ÷ 400°C; N: -200°C ÷ +1300°C; R: -50°C ÷ +1768°C; B: +250°C ÷ +1820°C; E: -200°C ÷ +1200°C; r: -200°C ÷ 400°C; N: -200°C ÷ +1300°C; R: -50°C ÷ +1768°C; B: +250°C ÷ +1820°C; E: -200°C ÷ +1200°C; r: -200°C ÷ 400°C; N: -200°C ÷ +1300°C; R: -50°C ÷ +1768°C; B: +250°C ÷ +1820°C; E: -200°C ÷ +1200°C; r: -200°C ÷ +00°C; N: -200°C ÷ +1200°C; R: -200°C ÷ +1200°C; R: -200°C ÷ +1200°C; Binary outputsAccuracy0,1% @25°C ± one digitStability50 ppm/°CBinary outputs0,2 or 4 x REL I_m=1A, U_m=30VDC/250VAC (cos#] or OC I_m=30MA, U_m=30VDC, P_m=100mWAnalogue output see ordering)0,2 or 4 x REL I_m=1A, U_m=30VDC/250VAC (cos#] or OC I_m=30MA, U_m=30VDC, P_m=100mWAnalogue output see ordering)0,2 or 4 x REL I_m=1A, U_m=30VDC/250VAC (cos#] or OC I_m=30MA, U_m=30VDC, P_m=100mWPower supply output24V DC +5%, -10% / max. 100 mA, stabilizedCommunication interface see orderingR5485, 8N1 and 8N2, 1200 bit/s + 115200 bit/s, Modbus RTU (not galvanically isolated)Operating temp.0°C + +70°C (standard), -20°C + +70°C (depending on option)Protection classIP 65 (front), available additional frame IP 65 for panel c								
InputHermoresistance: Pt100, Pt500, Pt1000 (automatic recognition of 3 and 4-conductor connection, resistance compensation of connecting conductors 0 ± 20 Ω at any conductor); measuring range: 1.00°C ± 600°C; resolution: 0.1°C thermocouple: type K, S, J, T, N, R, B, E; measuring range: K: -200°C ± +1370°C; S: -50°C ± +1768°C; J: -210°C ± +1200°C; r: -200°C ± +1300°C; R: -50°C ± +1768°C; B: +250°C ± +1768°C; J: -200°C ± +1200°C; resolution: 1°CAccuracy0,1% @25°C ± one digitStability50 ppm/°CBinary outputs0,2 or 4 x REL I=1A, U=30VDC/250VAC (cos#=1) or OC I=30mA, U=30VDC, P==100mWAnalogue output (available with 2 x REL or conductor): isolated, operating range 0/4-20 mA (max. 0-24 mA), load resistance 700 Q max, resolution 13 bit passive current; isolated, operating range 4-20 mA (max. 2,8-24 mA), load resistance 600 Ω@24VDC, resolution 13 bit passive current; isolated, operating range 4-20 mA (max. 2,8-24 mA), load resistance 600 Ω@24VDC, resolution 13 bit passive current; isolated, operating range 4/2.0 mA (max. 2,8-24 mA), load resistance 600 Ω@24VDC, resolution 13 bit passive current; isolated, operating range 4/2.0 mA (max. 2,8-24 mA), load resistance 600 Ω@24VDC, resolution 13 bit passive current; isolated, operating range 4/2.0 mA (max. 2,8-24 mA), load resistance 600 Ω@24VDC, resolution 13 bitPower supply output24V DC +5%, -10% / max. 100 mA, stabilizedCommunication interface sec orderingR-485, 8N1 and 8N2, 1200 bit/s + 115200 bit/s, Modbus RTU (not galvanically isolated)Operating temp0°C ÷ +50°C (standard), -20°C ÷ +50°C (depending on option)Protection classIP 65 (front), available additional frame IP 65 for panel cut-out sealing; IP 20 (case and connection clips)Case panel cu	Display	LED, 4 x 38 mm high, red (green - on request), brightness adjustable in 8 steps						
iof connecting conductors 0 ÷ 20 Ω at any conductor); measuring range: -100°C ÷ 600°C; resolution: 0,1°C thermocouple: type K, S, J, T, N, R, B, E; measuring range: K: -200°C ÷ +1370°C; S: -50°C ÷ +1768°C; J: -210°C ÷ +1200°C; resolution: 1°C, additional range -10 ÷ 90 mVAccuracy0,1% @25°C ± one digitStability50 ppm/°CBinary outputs0,2 or 4 x REL I_m=1A, U_m=30VDC/250VAC (cosø=1) or OC I_m=30mA, U_m=30VDC, P_m=100mWAnalogue output see ordering)advice current: operating range 0/4-20 mA (max. 0-24 mA), load resistance 700 Ω max, resolution 13 bit passive current: isolated, operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active current: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resis	Displayed values	-999 ÷ 9999 + decimal point						
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Whisht 260 g max	Dimensions	panel cut-out dimensions: 138,5 x 67 mm installation depth: min. 102 mm						
weight 500 g max.	Weight	360 g max.						

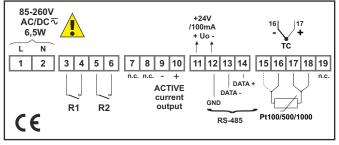
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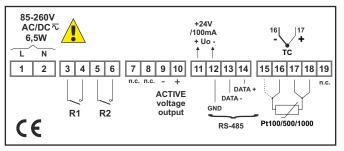
DIMENSIONS



EXAMPLARY PIN ASSIGNMENTS

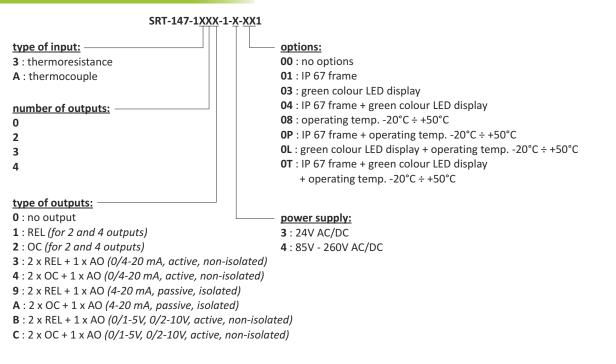


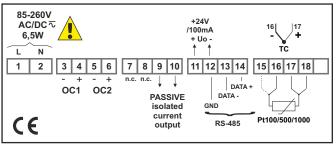
version with 2 x REL and 1 x AO 0/4-20 mA, active

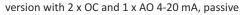


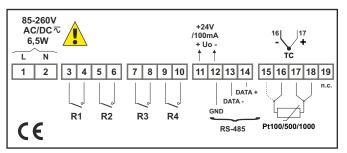
version with 2 x REL and 1 x AO 0/1-5V, 0/2-10V, active

ORDERING









version with 4 x REL

SRT-147.2



BOARD THICKNESS BRACKETS / ADAPTORS



SPH-07 1 ÷ 7 mm board thickness brackets (2 pcs) standard included with device



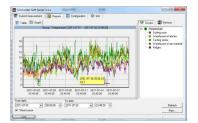


SPH-05 1 ÷ 5 mm board thickness brackets (2 pcs)

SPH-45 1 ÷ 45 mm board thickness brackets (2 pcs)

SOFTWARE

File Tools Help												
Devices			Registers									
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	- 9741	3	(@ (bit) Peak/Prot-inter	0,0		×.						
			C DR Invelore	Ph-008								
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			a (ch) becauf part									
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Device informations: Device informations:			III (Sth) HoldHode	peaks								
		III [32] HOPER	0,0		10			Read				
		C (\$2)(HidTes	0,1		100							
		C (SB) HeldOut	peak/drap value									
		[49] 0uthode	interfac									
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Event log										Added -		
Time	Cabegory Description											
	21 Information Kanading 20 rage											
	78 Solumeter Received addition 21 Solumeters Reading-resident											



S-Config 2 is used for the simultaneous detection of devices in multiple Modbus RTU networks and allows user to change the configuration of most of them. For each detected device a list of its registers, which the user can modify, is displayed and also additional informations about device parameters (type, address in the network, etc.). **S-Config** software can be downloaded from SIMEX website at **www.simex.pl**

SimCorder Soft is a visualisation application created to facilitate work with advanced networks of the SIMEX devices, for acquisition, visualisation, reporting, archiving, exporting and printing of measurement data from all network devices. You can download measurements from the devices automatically or on demand. There is a possibility of immediate notification about emergency states via SMS or e-mail, which will often allow to quickly resolve an arising problem while avoiding long and expensive stoppages. You can view the measurement data, emergency states and configuration via the internet at every time.

CONVERTERS



The **SRS-U4** converter is designed to connect a USB host to slave devices equipped with RS-485 interface. The PC with special software can be used as a host. The **SRS-U4** unit guarantees full galvanic isolation between USB and RS-485 circuits. The converter can work with any devices equipped with RS-485 interface and contains integrated circuit which supports USB 1.1 and USB 2.0 standards. The main purpose is connection of PC host computer with industrial data acquisition and visualisation systems based on RS-485 interface.

The SRS-U4 can be also manufactured with DIN mounting adaptor.

