





temperature meter with double display input: Pt100, Pt500, Pt1000 1 REL output threshold value setting RS-485 / Modbus RTU automatic recognition of 3 and 4-conductor connection

The STN-94 meter is designed for temperature measurements and is particularly suitable in applications which require quick access to the threshold value with a possibility of its instant modification during measurements. 3 [^] keys enable quick changing of any set value digit, which significantly reduces the time necessary to input a new parameter value. The device is equipped with one resistance-type Pt100/500/1000 input. 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 output can adjust the level of measured signal and are controlled according to threshold value. The meter can be configured with the local keyboard or free S-Config software via the RS-485 communication port.

signal peak value detection

free configuration software S-Config

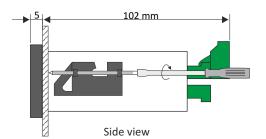
TECHNICAL DATA

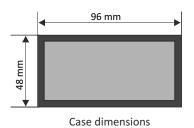
| Power supply Power consumption | 19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC, all separated for 85 ÷ 260V AC/DC and 16V ÷ 35V AC power supply: max. 4,5 VA; for 19V ÷ 50V DC power supply: max. 4,5 W |
|--------------------------------|--|
| Display | <u>real values:</u> LED, red, 3 digits, 13 mm high, brightness adjustable in 8 steps <u>set values:</u> LED, green, 3 digits, 13 mm high, brightness adjustable in 8 steps |
| Measuring range | -99°C÷600°C |
| Input | thermoresistance Pt100, Pt500, Pt1000 (automatic recognition of 3 and 4-conductor connection, resistance compensation of connecting conductors from 0 to 20 Ω at any conductor) |
| Resolution | 0,1°C |
| Accuracy | 0,1% @25°C ± one digit |
| Stability | 50 ppm/°C |
| Outputs (option) | 1 x REL I _{max} =1A, U _{max} =30VDC/250VAC (cosø=1) or OC I _{max} =30mA, U _{max} =30VDC, P _{max} =100mW |
| Power supply output | 24V DC +5%, -10% / max. 100 mA, stabilized |
| Communication interface | RS-485, 8N1 and 8N2, 1200 bit/s ÷ 115200 bit/s, Modbus RTU (not galvanically isolated) |
| Operating temp. | 0°C ÷ +50°C (standard), -20°C ÷ +50°C (option) |
| Storage temp. | -10°C ÷ +70°C (standard), -20°C ÷ +70°C (depending on option) |
| Protection class | IP 65 (front), available additional frame IP 65 for panel cut-out sealing; IP 20 (case and connection clips) |
| Case | panel mounting; material: NORYL - GFN2S E1 |
| Dimensions | case (WxHxD): 96 x 48 x 100 mm panel cut-out dimensions: 90,5 x 43 mm installation depth: min. 102 mm board thickness: standard 7 mm or other depending on used board thickness brackets (see Accessories) |
| Weight | 215 g max. |

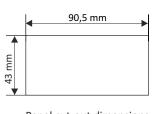




DIMENSIONS

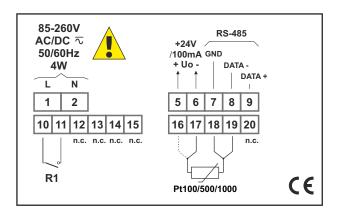




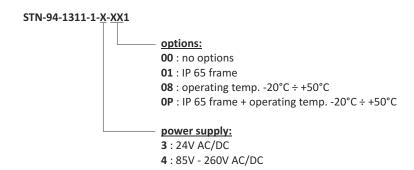


Panel cut-out dimensions

EXAMPLARY PIN ASSIGNMENTS



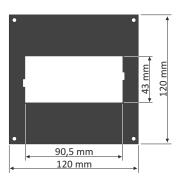
ORDERING



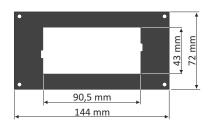


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MOUNTING PLATES



SMP-99/94 to mount 96 x 48 mm size unit in place of 96 x 96 mm cut-out



SMP-147/94 to mount 96 x 48 mm size unit in place of 144 x 72 mm cut-out

BOARD THICKNESS BRACKETS / ADAPTORS



SPH-07

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



SPH-45

1 ÷ 45 mm board thickness brackets (2 pcs)



SPH-05

1 ÷ 5 mm board thickness brackets (2 pcs)



brackets for mounting devices on DIN 35/7.5 or 15 rail (2 pcs)

SOFTWARE



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 module 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.

