



## SWS-94

- indicator with a large, 20 or 13 mm high, LED display
- RS-485 / Modbus RTU
- MASTER / SLAVE
- transmission speed adjustable: 1200 ÷ 115200 bit/sek.
- display brightness adjustable in 8 steps
- password protected
- free configuration software S-Config

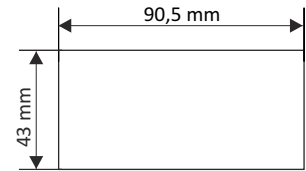
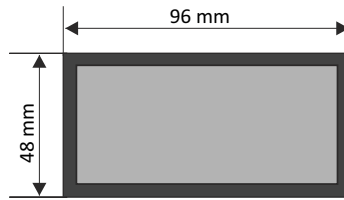
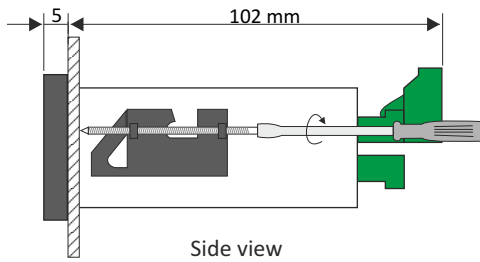
The **SWS-94** is a simple digital panel indicator intended for displaying any numerical values and characters defined by user (in SLAVE mode only) sent from the master device over the RS-485 serial interface link. The displayed value may be collected from other device (in MASTER mode). The display brightness can be adjusted in 8 steps. Modbus RTU protocol is used to communication with device. Baud rate is user defined in 1200 ÷ 115200 baud range. The meter can be configured with the local keyboard or free S-Config software via the RS-485 communication port.

### TECHNICAL DATA

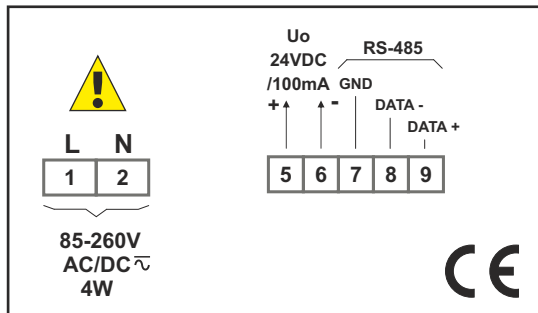
Power supply	19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC, all separated
Power consumption	for 85 ÷ 260V AC/DC and 16V ÷ 35V AC power supply: max. 4,5 VA; for 19V ÷ 50V DC power supply: max. 4,5 W
Display	LED, red (green - on request), 4 x 20 mm high or 6 x 13 mm high + 3 LED diodes (red), with 8-step adjustment of brightness
Displayed values	4 digits (-999 ÷ 9999 plus decimal point) or 6 digits (-99999 ÷ 999999 plus decimal point) or any of character indication in range of 7-segments display
Power supply output	24V DC +5%, -10% / max. 100 mA, stabilized
Communication interface	RS-485, Modbus RTU (not galvanically isolated)
Transmission speed	adjustable in range from 1200 to 115200 bit/sek.
Transmission parameters	8N1 and 8N2
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	210 g max.



**DIMENSIONS**



**EXAMPLARY PIN ASSIGNMENTS**



**ORDERING**

SWS-94-0000-1-X-XX1

**power supply:**

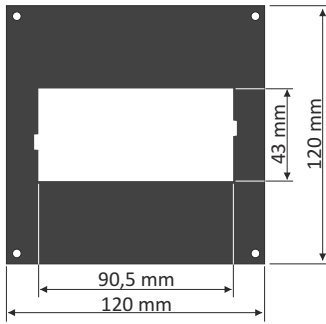
- 3 : 24V AC/DC
- 4 : 85V - 260V AC/DC

**options:**

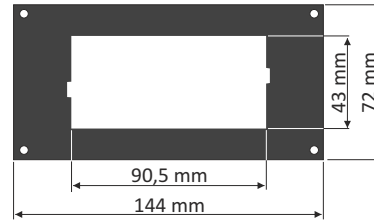
- 00 : no options
- 01 : IP 65 frame
- 05 : 6 digits 13 mm
- 06 : 6 digits 13 mm + IP 65 frame
- 08 : operating temp. -20°C ÷ +50°C
- 0P : operating temp. -20°C ÷ +50°C + IP 65 frame
- 0W : 6 digits 13 mm + operating temp. -20°C ÷ +50°C
- 0U : 6 digits 13 mm + operating temp. -20°C ÷ +50°C + IP 65 frame



## 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)

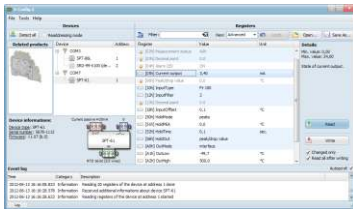


**SPH-05**  
1 ÷ 5 mm board thickness  
brackets (2 pcs)



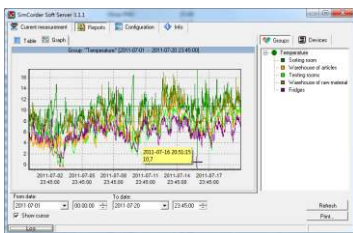
**SRH-94**  
brackets for mounting devices  
on DIN 35/7.5 or 15 rail (2 pcs)

## 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](http://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.