simex

SWS-73
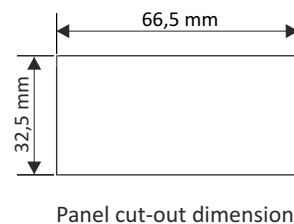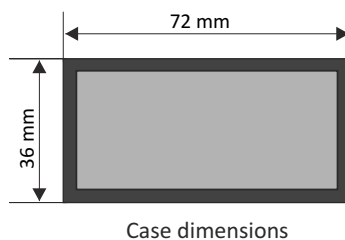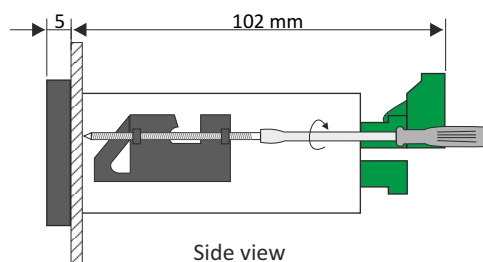
- indicator in a small case
- two-coloured display (4-digits, IP 40)
- RS-485 / Modbus RTU
- MASTER / SLAVE
- power supply output: 24V DC
- display brightness adjustable in 8 steps
- free configuration software S-Config

The **SWS-73** 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. 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. Modbus RTU protocol is used to communication with device. The indicator can be configured with the local keyboard or free S-Config software via the RS-485 communication port.
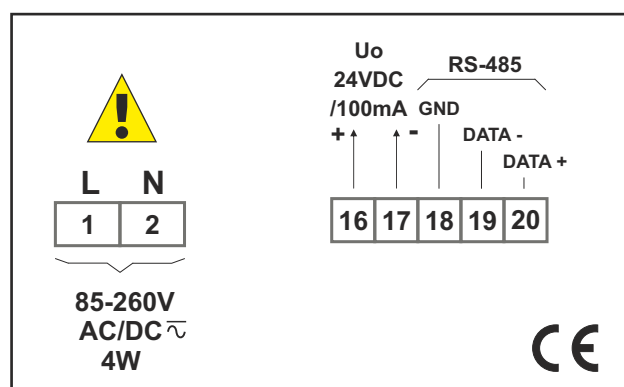
TECHNICAL DATA

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	standard: LED, two-coloured (red-green), 4 x 13 mm (IP 40) option: LED, red, 6 x 9 mm (IP 65) 3 LED diodes (red), with 8-step adjustment of brighness
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	depending on display size: 6 x 9 mm display: IP 65 (front), available additional frame IP 65 for panel cut-out sealing; IP 20 (case and connection clips) 4 x 13 mm display: IP 40 (front); IP 20 (case and connection clips)
Case	panel mounting; material: NORYL - GFN2S E1
Dimensions	case (WxHxD): 72 x 36 x 97 mm panel cut-out dimensions: 66,5 x 32,5 mm installation depth: min. 102 mm board thickness: standard 7 mm or other depending on used board thickness brackets (see Accessories)
Weight	150 g max.

SIMEX Ltd., Wielopole 11, 80-556 Gdańsk, Poland, tel. (+48) 58 762-07-77, fax 58 762-07-70, www.simex.pl   SWS-73.1

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DIMENSIONS

Side view	Case dimensions	Panel cut-out dimensions

5 — 102 mm

72 mm — 36 mm

66,5 mm — 32,5 mm

EXAMPLARY PIN ASSIGNMENTS

⚠️

L N
1 2

85-260V AC/DC ∿ 4W

Uo 24VDC /100mA **RS-485**
GND
+ **-** **DATA -**
DATA +
16 17 18 19 20

CE

ORDERING
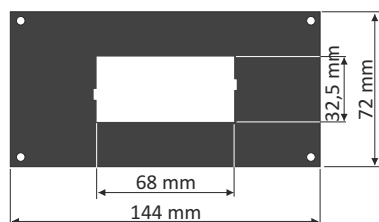
SWS-73-0000-1-X-XX1

options:
00 : no options
01 : IP 65 frame (display 6 x 9 mm)
08 : operating temp. -20°C ÷ +50°C
0P : operating temp. -20°C ÷ +50°C + IP 65 frame (display 6 x 9 mm)

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

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SWS-73.2

MOUNTING PLATES

SMP-147/73
to mount 72 x 36 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)
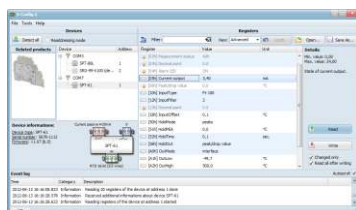**standard included with device**

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

SPH-45
1 ÷ 45 mm board thickness brackets (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**
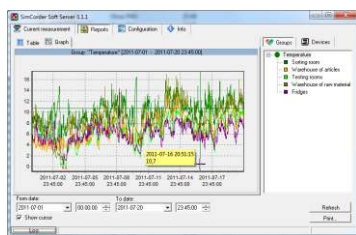
SimCorder Soft is a visualisation application created to facilitate work with advanced networks of the SIMEX devices, for acquisition, visualisation, reporting, archiving, exporting and printing of measurement data from all network devices. You can download measurements from the devices automatically 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** 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.

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