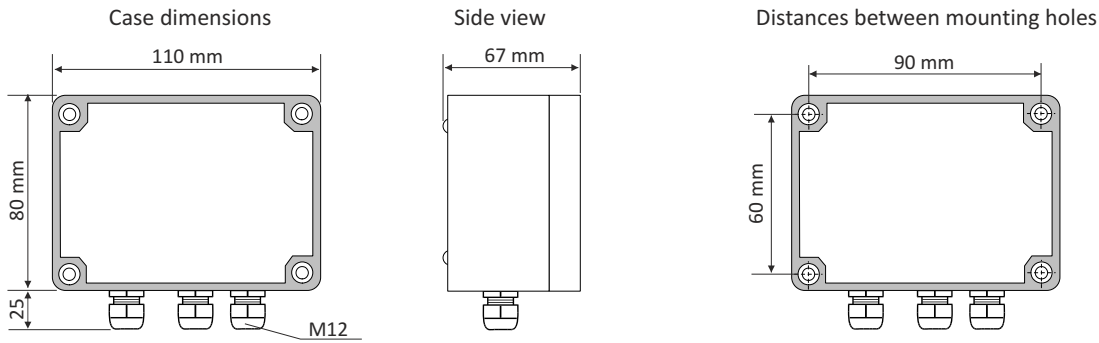# SWS-N118

- indicator in wall-mounted <u>IP 67</u> case
- display: 4 or 6 digits LED
- serial input
- power supply output: 24V DC
- RS-485 / Modbus RTU
- MASTER / SLAVE
- display brightness adjustable in 8 steps
- free configuration software S-Config

The **SWS-N118** is a simple digital panel serial 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. Thanks to the tight housing with high (IP 67) protection degree, this device is particularly suitable for operations in harsh environments. 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 meter may be configured with no need to open the case, by using the remote controller or with free S-Config software via the RS-485 communication port.
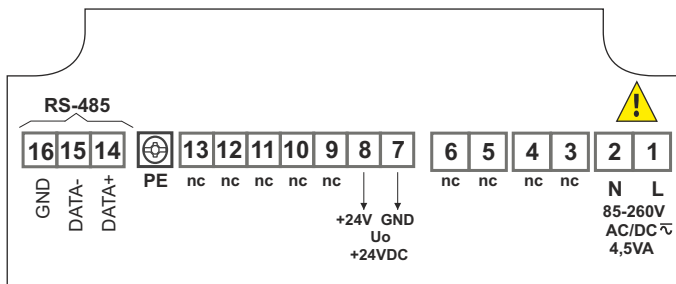
TECHNICAL DATA

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. 5 VA; for 19V ÷ 50V DC power supply: max. 5 W
Display	LED, 4 x 20 mm or 6 x 13 mm high, red, brightness adjustable in 8 steps
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)
Baud rate	adjustable in range 1200 ÷ 115200 bit/s
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 67
Case	wall mounting; material: ABS + polycarbonate (standard); 100% polycarbonate (on request)
Glands	M12, cable diameter 3 ÷ 6,5 mm
Dimensions (WxHxD)	without glands: 110 x 80 x 67 mm; with glands: 110 x 105 x 67 mm
Weight	max. 330 g

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

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DIMENSIONS

Case dimensions

110 mm

80 mm

25

M12

Side view

67 mm

Distances between mounting holes

90 mm

60 mm

EXAMPLARY PIN ASSIGNMENTS

RS-485

16	15	14	⊕	13	12	11	10	9	8	7		6	5	4	3	2	1
GND	DATA-	DATA+	PE	nc	nc	nc	nc	nc				nc	nc	nc	nc	N	L

+24V   GND
Uo
+24VDC

85-260V
AC/DC ⏦
4,5VA

⚠

ORDERING

SWS-N118-0000-1-X-XX1

options:
00 : no options
05 : 6 LED digits
08 : operating temp. -20°C ÷ +50°C
0W : 6 LED digits + operating temp. -20°C ÷ +50°C

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

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simex

REMOTE CONTROLLER

SIR-15

InfraRed remote controllers may be used as external programming keyboard for all SIMEX devices equipped with IR receivers and remote programming functions. Pressing of any local IR controller key, causes transmission of it's code to the device. Functions of particular keys depend on devices features.

Power supply voltage: 6V DC - 4 alkaline batteries type LR44
Operation range: from 0,5 to 5 m (depend on programmed device features)

SOFTWARE
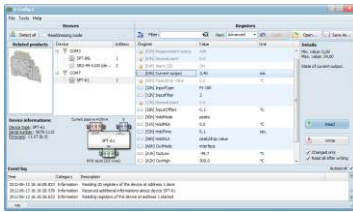
S-Config 2 is used for the simultaneous detection of devices in multiple Modbus RTU networks and allows user to change the configuration of most of them. For each detected device a list of its registers, which the user can modify, is displayed and also additional informations about device parameters (type, address in the network, etc.).
S-Config software can be downloaded from SIMEX website at **www.simex.pl**
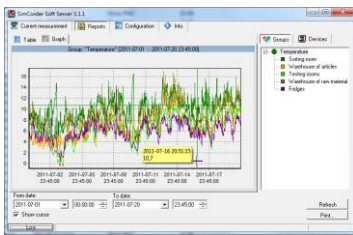
SimCorder Soft is a visualisation application created to facilitate work with advanced networks of the SIMEX devices, for acquisition, visualisation, reporting, archiving, exporting and printing of measurement data from all network devices. You can download measurements from the devices automatically 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.

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