**simex**

# SWE-73-L

- low-cost loop-powered meter in a small case
- measurement input 4-20 mA
- optional alarm output available
- **signal peak value detection**
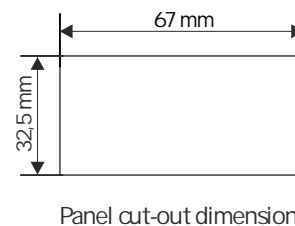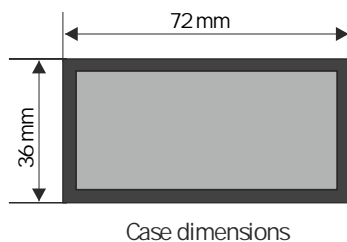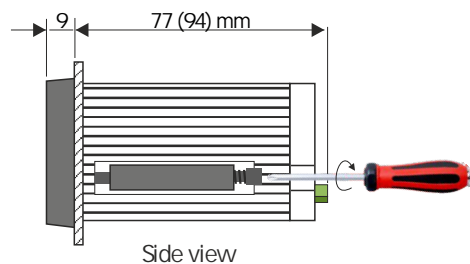- all parameters are freely programmable from the remote control

IR remote controller
SIR-25

SWE-73-L is a simple and low cost digital indicator with a single 4-20 mA current input, which powers this device at the same time. Measurement input is equipped with safety circuits, saving internal electronics against overload. Device has possibilities of recalculating measured current according to few predefined transfer functions (linear, square, square root) or fully definable user characteristic (max. 20 points). Result is displayed on 4-digit red LED display, the range of the result is: -999 to 9999, with definable decimal point position. The device can be equipped with optional SPDT relay. Due to users safety requirements this output can drive a bulb lamp as well as sound signaling device but must not be used for controlling purposes. Configuration of the device can be done using IR remote controller (when input current is higher than 10mA, what is signalised by additional LED).
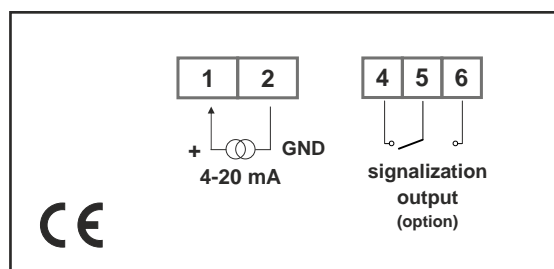
## TECHNICAL DATA

| | |
|---|---|
| Power supply | from measurement line, min. current 3.5 mA, max. voltage drop 7V |
| Display | LED, red, 4 x 13 mm high |
| Displayed values | -999 ÷ 9999 plus decimal point |
| Input | current 4-20 mA, overload-protected, input current limited to about 50 mA |
| Accuracy | 0.1% @ 25°C ± one digit |
| Stability | 50 ppm/°C |
| Output (option) | 1 x relay SPDT 30V/500mA, resistive load, for signalization purpose only |
| Data memory | non-volatile memory, EEPROM type |
| 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 UL94V-0 |
| Dimensions | case (WxHxD): 72 x 36 x 77 mm<br>panel cut-out dimensions: 67 x 32,5 mm<br>installation depth: min. 78mm<br>board thickness: max. 5 mm |
| Weight | approx. 71 g |

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## DIMENSIONS



Side view

Case dimensions

Panel cut-out dimensions

9 | 77 (94) mm

72 mm

36 mm

67 mm

32,5 mm

## PIN ASSIGNMENTS



| 1 | 2 |     | 4 | 5 | 6 |

+ ⊕ GND
**4-20 mA**

**signalization
output**
**(option)**

CE
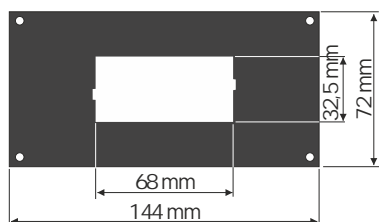
## ORDERING

SWE-73-L-9-XX1-X

units:
O: no unit on display
°C
%
bar
m
l/min
A
V
MPa

options:
OO: no options
O1 : IP 65 frame
O8 : operating temp. -20°C ÷ +50°C
OP : IP 65 frame + operating temp. -20°C ÷ +50°C
OM : signalization output
ON : IP 65 frame + signalization output
OQ : signalization output + operating temp. -20°C ÷ +50°C
OV : IP 65 frame + signalization output + operating temp. -20°C ÷ +50°C

# Meters accessories

## MOUNTING PLATES

SMP-147/73
to mount 72 x 36 mm
size unit in place
of 144 x 72 mm cut-out
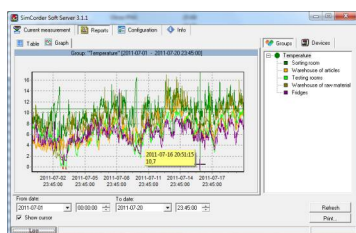
32,5 mm
72 mm
68 mm
144 mm

## REMOTE CONTROLLER

The SIR-25 infraRed remote control 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. The remote control features a five-button keyboard, including the F/ /RESET function button dedicated to the operation of the devices in the following group: counters, flow meters, and tachometers. Functions of particular keys depend on devices features.

Power supply voltage:      3V DC - 1 lithium battery CR2032 type
Operation range:           from 0,5 to 5 m (depend on programmed device features)

## SOFTWARE

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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