simex

MultiLog

MultiLog SRD-99
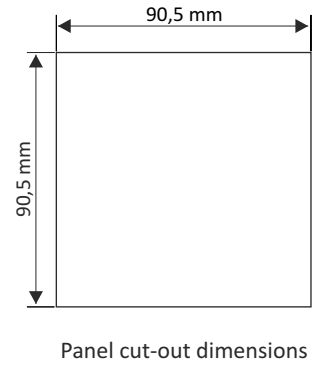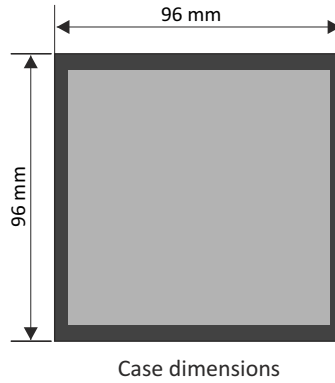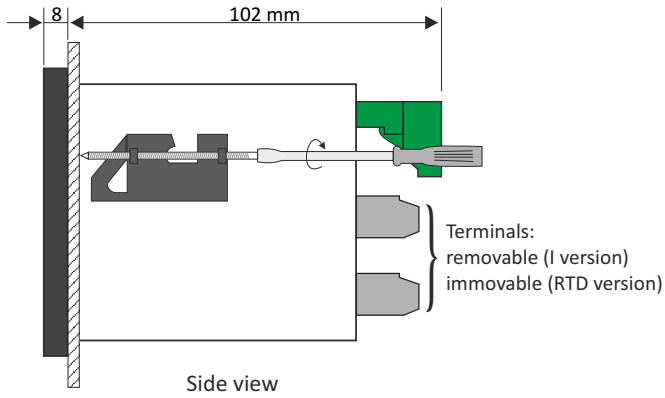
- **data recorder**
- **up to 8 inputs 0/4 - 20 mA or Pt100/Pt500/Pt1000**
- **2 electronic relay outputs (optoMOS)**
- **USB Host port for flash data storage and configuration transfer**
- **RS-485 / Modbus RTU**
- **display measured values in °C or °F**
- **free configuration and recording software**

The **MultiLog SRD-99** device is designed to record and display current values as well as to present technological parameters in the form of graphs. The device is equipped with eight temperature (Pt100/500/1000) or current (in the 0/4-20 mA standard) inputs, one pulse (digital) input for controlling the recording process and one USB Host port for flash data storage. However, due to a significant number of configured parameters it is advised to use the attached configuration software for PCs. **SRD-99** has 2 electronic relays with max. load 24V AC (35V DC) 200 mA. Main function of outputs is a signalisation of critical situations, but thanks to expanded menu it is possible to use it in numerous control and regulation applications. Both outputs can be driven by single measurement channel or by group of channels (from 1 to 8 channels) with individually adjustable thresholds for every measurement channel. Signalisation of output state is made as two fields described R1 and R2 in left upper corner of LCD screen.
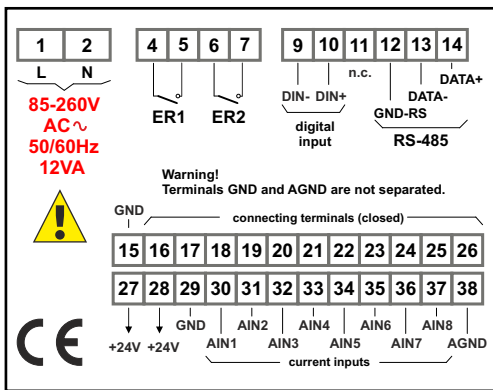
TECHNICAL DATA

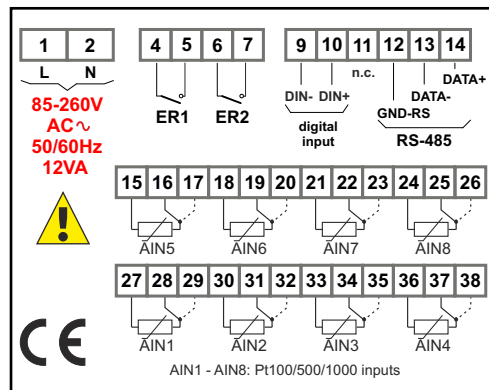|	
Power supply **Power consumption**	19 ÷ 50V DC, 16 ÷ 35V AC or 85 ÷ 260V AC/DC, all separated 7 VA typ., 12 VA max.
Display	graphic LCD, 128 x 64 points, with backlight
Measuring inputs **Digital input**	1, 4 or 8: RTD: Pt100; Pt500; Pt1000 (2 and 3-conductor connection) current: 0-20 mA or 4-20 mA; common ground 1 input 24V DC, optocoupled
Measuring range	current inputs: ± 9999 + decimal point RTD inputs: -100,0°C ÷ +600,0°C with resolution 0,1°C (-148°F ÷ +999,9°F with resolution 0,1°F)
Outputs **Sensor supply output**	2 electronic relays (ER1, ER2), max. load 24V AC (35V DC) / 200 mA 24 V DC ± 5%, max. 200 mA (only current version), not separated from measuring inputs
Communication	RS-485 (Modbus RTU) or USB Host port, galvanically isolated, transmission speed: 1200 - 115200 bit/sec.
Memory capacity	2 MB (0.5 million data recordings) in version without USB, 8 MB (above 2 millions data recordings) in version with USB Host port
Data recording period	1 s / 2 s / 5 s / 10 s / 15 s / 20 s / 30 s / 1 min / 2 min / 5 min / 10 min / 15 min / 20 min / 30 min / 60 min
Operating temperature	0°C ÷ +50°C
Storage temperature	-10°C ÷ +70°C
IP rate protection	version without USB: IP 65 (front), available options: additional frame IP 65 for panel cut-out sealing, door STD-99 (see: accessories) version with USB: a) IP 40, b) IP 54 (when fitted with STD-99 transparent door, see: accessories)
Case	panel mounting; material: NORYL - GFN2S E1
Dimensions	case (WxHxD): 96 x 96 x 100 mm panel cut-out dimensions: 90,5 x 90,5 mm installation depth: min. 102 mm board thickness: standard 7 mm or other depending on used board thickness brackets (see: Accessories)
Weight	420 g max.

DIMENSIONS

8 | 102 mm

Terminals:
removable (I version)
immovable (RTD version)

Side view

96 mm | 96 mm

Case dimensions

90,5 mm | 90,5 mm

Panel cut-out dimensions

EXAMPLARY PIN ASSIGNMENT

version with current inputs
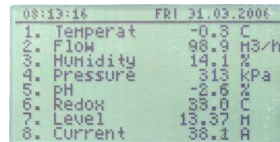

AIN1 - AIN8: Pt100/500/1000 inputs

version with Pt inputs

DATA PRESENTATION

Individual alphanumeric description (text) of each of the recorded channels is possible. The multi-language menu assisted with full text descriptions makes the unit configuration process quite easy.

*Real time measurement value
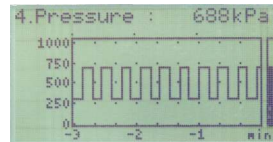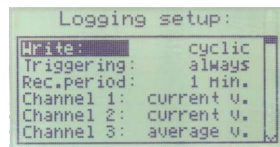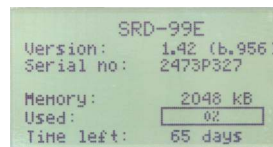18 mm high digits*

*Up to 8 channels displayed
on one screen*

Chart view

Main setting menu

Logging set-up

Device information

ORDERING

SRD-99-**XX**28-1-**X**-**XX**1

number of inputs:
1
4
8

type of inputs:
1 : current 0/4-20 mA
3 : RTD (Pt100, Pt500, Pt1000)

options:
00 : no options
01 : IP 65 frame (version without USB)
0B : USB Host port provided with a protective cap

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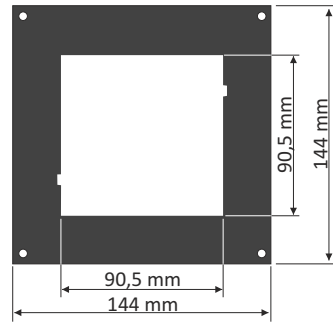**3** : 24V AC/DC
4 : 85V - 260V AC/DC

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KKATAEN_v1.17.021

SRD-99.2

Recorders accessories

SECURITY DOOR WITH LOCK

STD-99
A transparent door with IP 54 rate and lockable with security key, for 96 x 96 mm case

100 mm
98 mm

MOUNTING PLATES

SMP-1414/99
to mount 96 x 96 mm size unit in place of 144 x 144 mm cut-out

90,5 mm
144 mm
90,5 mm
144 mm

BOARD THICKNESS BRACKETS / ADAPTORS

SPH-07
1 ÷ 7 mm board thickness brackets (2 pcs)
standard included with device
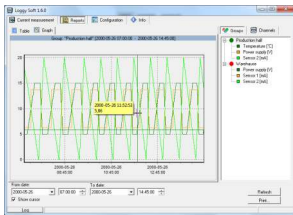
SPH-05
1 ÷ 5 mm board thickness brackets (2 pcs)

SPH-45
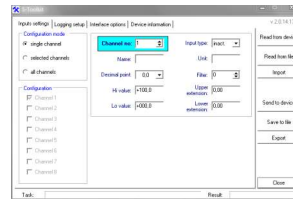1 ÷ 45 mm board thickness brackets (2 pcs)

SRH-99
brackets for mounting devices on DIN 35/7.5 or 15 rail (2 pcs)

SOFTWARE

The **Loggy Soft** enables the visualization, archiving and printing of measurements (e.g. temperature, humidity, pressure) stored in MultiLog device memory.

The **S-Toolkit** enables configuration reading and writing operations, updating the device firmware and obtaining basic information on MultiLog series devices through RS-485 serial interface or flash-disk devices plugged into USB port.
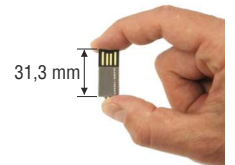
Loggy Soft and **S-Toolkit** software can be downloaded from SIMEX website at **www.simex.pl**

PENDRIVE

An unusually small and light USB flashdrive has been designed with easy storage and transport in mind, fits perfectly in the case with closed IP 54 rate door.

MF-8
mini pendrive / memory stick
8 GB + strap

MS pendrive,
4 or 8 GB

31,3 mm

CONVERTERS

SRS-U4

SRS-2/4-Z45

The converter modules are designed to connect USB host (**SRS-U4** converter) or RS-232 port (**SRS-2/4-Z45** converter) to slave devices equipped with RS-485 interface.
The PC computer with special software can function as a system MASTER device.
The units guarantee full galvanic isolation between USB/RS-232 and RS-485 circuits.