

NEW!
Automatic data storage
on USB flash drives

SRD-99

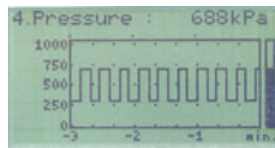
- data recorder
- up to 8 inputs 0/4 - 20 mA or Pt100/Pt500/Pt1000
- USB Host port for flash data storage
- automatic data storage on USB flash drives
- 1 digital input for recording release
- RS-485 / Modbus RTU



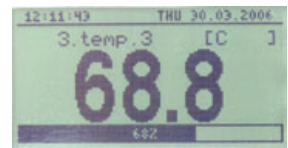
The **SRD-99** device is designed to record and display current values as well as to present technological parameters in the form of graphs. The device is equipped with eight temperature (Pt100/500/1000) or current (in the 0/4-20 mA standard) inputs, one pulse (digital) input for controlling the recording process and one USB Host port for flash data storage. The device has the memory capacity of 2 MB (0.5 million data recordings altogether) or 8 MB in version with USB port (2 millions data recordings). However when a USB flash drive is plugged permanently, it can significantly extend the recording time without a need of data transferring from **SRD-99** to a PC. For example: 1GB flash drive allows continuous data recording for over 1 year (8 channels recorded every 1 sec., approx 250 millions data recordings)! The internal analogue-digital converter has a 16 bit resolution (12 bit in unit with 0/4-20mA inputs), which provides high recording resolution results. Additionally, individual alphanumeric description (text) of each of the recorded channels is possible. The menu assisted with full text descriptions makes the unit configuration process quite easy. However, due to a significant number of configured parameters it is advised to use the attached configuration software for PCs.

- USB Host port for flash data storage and configuration transfer (option),
- a legible graphic display 128x64 points, with a backlight,
- current graph of trends for each channel respectively,
- free configuration and recording software,
- insulated communication interface RS-485.

An example of what the display looks like



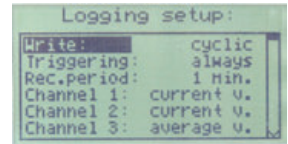
The history of the process in time



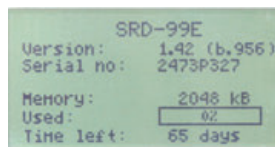
The current value of the measurement signal
Height of the digits: 18 mm



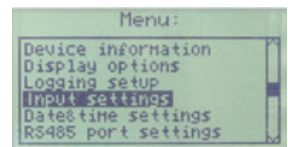
8-channel view displayed at the same time



Recording parameters



Device information



Main menu of the unit

Technical data

Power supply voltage: 19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC
Power consumption: typical 7 VA; max. 12 VA
Display: lit, graphic LCD, 128 x 64 points, with backlight
Measuring inputs: 1, 4 or 8; Pt100; Pt500; Pt1000 (2 and 3-conductor connection) or 0/4-20 mA inputs; common earthing
Measuring range: ± 9999 + decimal point (current inputs); -100°C ÷ +600°C (RTD inputs) with resolution 0,1°C
Digital input: 1 input 24V DC
Sensors supply: 24 V DC±5% / 200 mA, not separated from measuring inputs
Communication interface: RS-485 (Modbus RTU) or USB Host port, galvanically separated
Transmission speed: 1200 - 115200 bit/sec.
Internal memory capacity: 2 MB (0.5 million data recordings), 8 MB (above 2 millions data recordings) in version with USB Host port
External memory capacity: approx 250 millions data recordings when using eg. 1GB USB flash drive (not provided with the SRD-99)
Type of protection: version without USB: a) IP 40 (front side), b) IP 65 (front side when an additional frame is installed)
version with USB: c) IP 20, d) IP 42 (when transparent door with security key type STD-99 is installed, see: optional accessories)
Working temperature: 0°C ÷ +60°C
Storage temperature: -10°C ÷ + 70°C
Case: board
Case material: NORYL - GFN2S E1
Case dimensions: 96 x 96 x 100 mm
Panel cut-out dimensions: 90,5 x 90,5 mm
Installation depth: min. 102 mm
Board thickness: max. 5 mm

Ordering

SRD-99-XX00-1-X-XX1

options:

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

power supply:

- 3 : 19V ÷ 50V DC, 16V ÷ 35V AC
- 4 : 85V - 260V AC/DC

type of inputs:

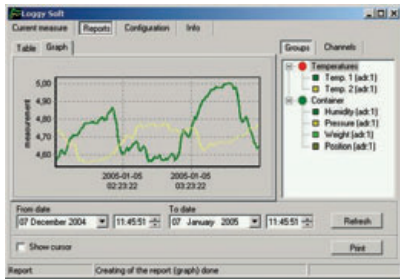
- 1 : current 0/4-20 mA
- 3 : RTD (Pt100, Pt500, Pt1000)

number of inputs:

- 1
- 4
- 8

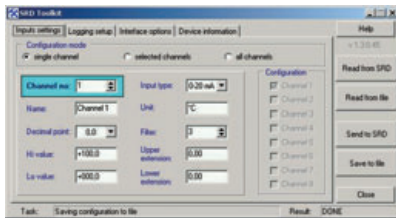
Software attached with data recorder

1. Loggy Soft



The **Loggy Soft** program enables the visualization, archiving and printing of measurements (e.g. temperature, humidity, pressure) stored in SRD-99-type device memory. Work with SRD-99-type devices takes place through an RS-485 serial interface or flash-disk devices plugged into USB port. Connecting a network of units to a serial port (RS-232) or USB port of a PC is possible thanks to a converter (RS-485 to RS-232 or RS-485 to USB) produced by SIMEX.

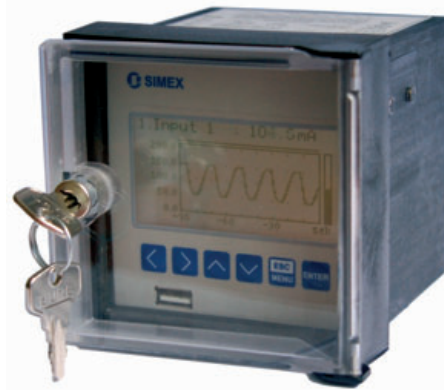
2. S-Toolkit



The **S-Toolkit** software enables configuration reading and writing operations, updating the device firmware and obtaining basic information on SRD-99-type devices through RS-485 serial interface or flash-disk devices plugged into USB port. This application enables to quickly and easily define device parameters in one of three possible configuration models. The set of parameters can be transmitted directly to the device or stored in a file for future use.

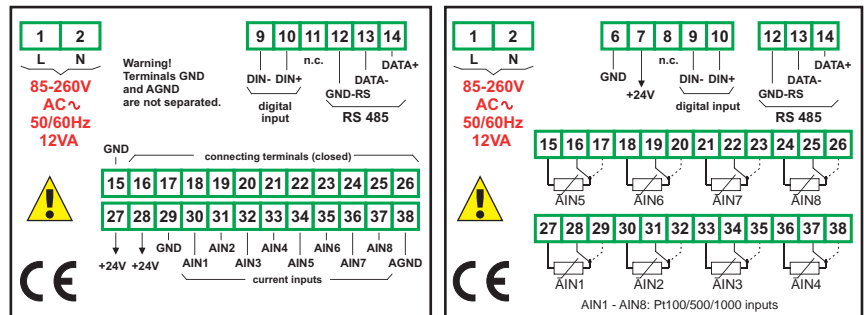
Content of package

- data recorder **SRD-99**,
- assembly brackets - 2 pieces,
- user's manual for **SRD-99** unit,
- user's manual for **Loggy Soft** used for moving, reporting, archiving and displaying registered data,
- user's manual for **S-Toolkit** used for data recorder configuration,
- CD-ROM with the aforesaid manual in PDF format and installations of **Loggy Soft** and **S-Toolkit** software.



Data recorder **SRD-99** with transparent door **STD-99**, type of protection IP 42

Exemplary pin assignment



version with current inputs

version with Pt inputs

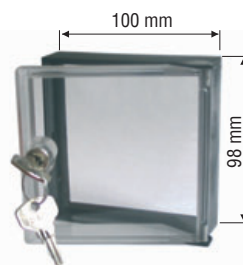
Optional accessories



SRS-U/4-Z45
USB/RS-485 converter



SRS-2/4-Z45
RS-232/RS-485 converter



STD-99

Transparent door with moulded frame acc. to DIN 43700, lockable with security key. Door and frame are made by injection moulding thus assuring an exact fit, an optimal choice of a material which is very strong and with no risk of corrosion; perfect seal-protective system IP 42 acc. to DIN 40050 provided by all-round soft rubber sealing the moulding; due to the special door mountings, the door does not swing in or out sideways on opening; door-frame and front-frame can be exchanged. The ready-assembled units cannot be opened by unauthorised persons without using force or special equipment.

The mini USB memory stick is incredibly small and stylish flash drive offering up to 8GB data storage. Measuring merely 31,3 x 12,4 mm, the mini USB drive is ideal for transporting data and fits inside optional lockable door **STD-99**.

- records up to 2 billion records,
- up to 30 MB/s (200X) data transfer rate,
- fully compatible with USB 2.0 and 1.1,
- durable solid-state storage - 10 years data retention,
- shock and water resistant, solid chrome housing,
- 1, 2, 4 and 8GB memory sticks available.

However, 1 GB is the most recommended one to use with SRD-99.

mini USB stick

