MultiLog SRD-N16



- **wall mounted IP 65 case**
- **up to 8 inputs: thermocouple, RTD and process (current and voltage)**
- **2 relay outputs**
- **USB Host port for flash data storage**
- **RS-485 / Modbus RTU**
- **white or amber colour LCD available**
- **free configuration and recording software**

The **MultiLog SRD-N16** device is designed to record and display current values as well as to present technological parameters in the form of charts. The instrument can be equipped with up to eight temperature (RTD / TC), current or voltage inputs, one digital input for the recording process control 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-N16 has 2 relays with max. load 1A/250V AC enclosed within the unit. 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) 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.

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.



Device information



Main menu of the unit



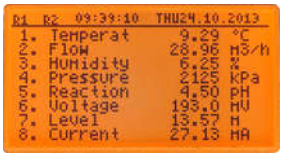
The history of the process on chart



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



Logging parameters



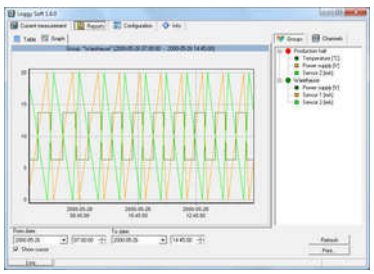
8-channels displayed the same time

MEMORY

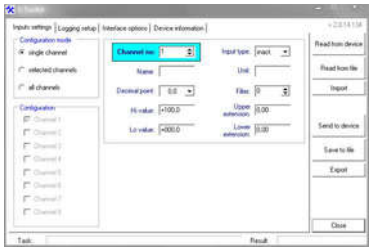
Internal memory has 8 MB capacity (2 milion data recordings). However when a USB flash drive is plugged permanently, it can significantly extend the recording time without a need of data transfering from **SRD-N16** to a PC. For example: 1GB flash drive allows continuous data recording for over 1 year (8 channels recorded every 1 sec., approx. 250 million data recordings)!

SOFTWARE

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

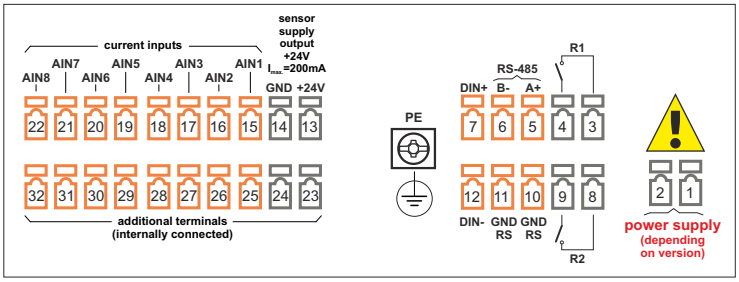


The **S-Toolkit** software enables configuration reading and writing operations, updating the device firmware and obtaining basic information on MultiLog series devices through RS-485 serial interface or flash-disk devices plugged into USB port. This application enables to quickly and easily define device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



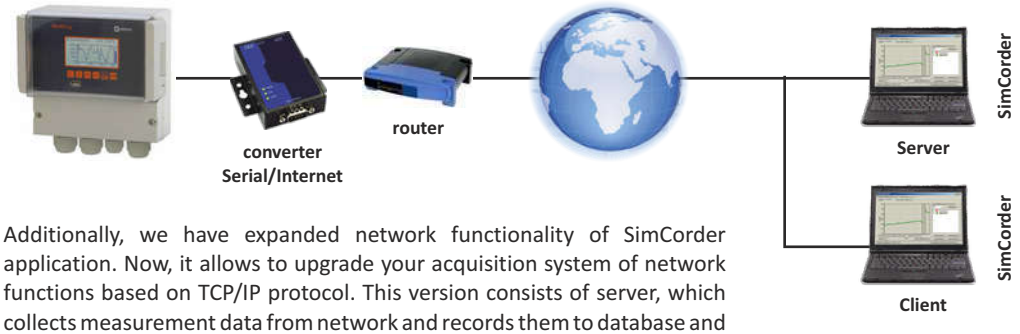
EXAMPLARY PIN ASSIGNMENT

version with current inputs



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

We have extended our offer by ethernet applications and just there is no need to place PC with RS-485/USB converter near the installation. Now it can be installed on any location where internet is available.



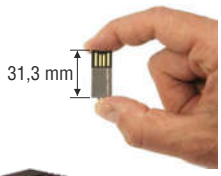
Additionally, we have expanded network functionality of SimCorder application. Now, it allows to upgrade your acquisition system of network functions based on TCP/IP protocol. This version consists of server, which collects measurement data from network and records them to database and clients which communicate to the server and allow watching stored data.

TECHNICAL DATA

Power supply	19 ÷ 50V DC, 16 ÷ 35V AC or 85 ÷ 260V AC/DC, all separated; 3 VA typ., 5 VA max.
Display	graphic LCD, 128 x 64 points, with backlight (amber or white)
Measuring inputs **Digital input**	1, 4 or 8: current: 0-20 mA or 4-20 mA voltage: 0-5 V, 1-5V, 0-10V or 2-10V RTD: Pt100, Pt500, Pt1000 thermocouple: K, S, J, T, N, R, B, E type 1 input 24V DC, optocoupled
Measuring range	current/voltage: ± 9999 + decimal point, resolution > 1mV RTD: -100.0°C ÷ +600.0°C with resolution 0,1°C; -148°F ÷ +999,9°F with resolution 0,1°F TC: -200°C ÷ +1370°C (**K**); -50°C ÷ +1768°C (**S**); -210°C ÷ +1200°C (**J**); -200°C ÷ +400°C (**T**); -200°C ÷ +1300°C (**N**); -50°C ÷ +1768°C (**R**); +250°C ÷ +1820°C (**B**); -200°C ÷ +1000°C (**E**); 0-80 mV or 0-120 mV
Outputs **Sensor supply output**	2 relays (R1, R2), I_{max}=1A, U_{max}=30VDC/250VAC (cosø=1) 24 V DC -10%/+5%, max. 200 mA (only current version), not separated from measuring inputs
Communication	RS-485 (Modbus RTU), galvanically separated, transmission speed: 1200 - 115200 bit/sec. and USB Host port
Memory capacity	8 MB internal (above 2 million data recordings)
Environmental conditions	operating temp.: 0°C ÷ +50°C(standard), -20°C ÷ +50°C (option); storage temp.: -10°C ÷ +70°C (standard), -20°C ÷ +70°C (option)
IP rate protection	IP 65
Case	wall mounting; material: ABS (case), polycarbonate (front panel)
Dimensions (WxHxD)	166 x 161 x 103 mm (without glands)
Glands (depend on number of channels)	1 channel: 2 x M20 (multi hole inserts 2 x 5 mm), 1 x M16 4 channels: 2 x M20 (multi hole inserts 2 x 5 mm), 1 x M16 8 channels: 2 x M25 (multi hole inserts 4 x 5 mm), 1 x M20 (multi hole inserts 2 x 5 mm), 1 x M16

ACCESSORIES

USB flash drive
An incredibly small, light and stylish flash drive offering 4 or 8 GB data storage (31,3 x 12,4 mm / 6 g) has been designed with easy storage and transport in mind.



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



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



SCL-N16
case lock



ORDERING

SRD-N16X-XX21-1-X-XX1

display colour:
A : amber
W : white

number of inputs:
1
4
8

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

type of inputs:
1 : current (0/4-20 mA)
2: voltage (0/1-5 V, 0/2-10V)
3 : RTD (Pt100, Pt500, Pt1000)
A : thermocouple (K, S, J, T, N, R, B, E)

options:
0B : USB Host (standard)
0K : USB Host + operating temp. -20°C ÷ +50°C

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