





SLC-94

- timer and totalizer
- START/STOP pulse inputs
- 2 reset sources: manual or electronic
- 0 or 2 REL / OC outputs
- RS-485 / Modbus RTU
- wide range of precision and presentation formats
- ACCESS option easy threshold modification
- free configuration software S-Config

SLC-94 is designed for precision time (period) measurements, e.g. duration of time interval and mesurements of machine's operating time. Signals from push-buttons or contactors of control devices are connected to the terminals placed on back side of the counter. Properly programmed counter allows to measure time period between {START} and {STOP} signals. Other configuration allows to measure the activity time of {START} signal. In addition the measure can be started, stopped and cleared using local keyboard (on front of the device) or via RS-485 interface. Apart from basic function of time counting, totalizer is also available. Both counters are triggered and stopped simultaneously. Time counting is realised in range 0 ms to 999 99.9 hours. Build in two relay outputs allow use of this counter for control in many time depend processes. The counter can be configured with the local keyboard or free S-Config software via the RS-485 communication port.

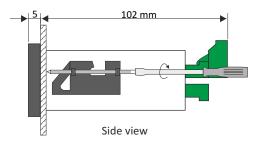
TECHNICAL DATA

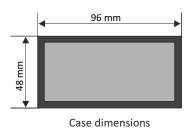
| Power supply Power consumption | 19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC or 12V AC/DC, all separated for 12V AC/DC, 85 ÷ 260V AC/DC and 16V ÷ 35V AC power supply: max. 4.5 VA; for 19V ÷ 50V DC: max. 4.5 W |
|-----------------------------------|--|
| Display | LED, 6 x 13 mm high, red, brightness adjustable in 8 steps |
| Displayed values range | depending on display format main timer: max. from 0 ms to 999 99.9 hours totalizer: max. from 0 sec. to 999 99.9 hours |
| Inputs | pulse, galvanically isolated: - start counting (START) - stop counting (STOP) - counter reset (RESET) - common (COM) |
| Input levels | low level: 0 V ÷ 1 V; high level: 10 V ÷ 30 V (12 mA @ 24V) |
| Inputs sampling frequency | ≥ 10 kHz |
| Resolution | 1 ms |
| Time between input signals edges | min. 500 μs |
| Binary outputs | 0 or 2 x REL I _{max} =1A, U _{max} =30VDC/250VAC (cosø=1) or OC I _{max} =30MA, U _{max} =30VDC, P _{max} =100mW |
| Power supply output | 24V DC +5%, -10% / max. 100 mA, stabilized |
| Communication interface | RS-485, 8N1 and 8N2, 1200 bit/s ÷ 115200 bit/s, Modbus RTU (not galvanically isolated) |
| Data memory | non-volatile memory, EEPROM type |
| Operating temperature | 0°C ÷ +50°C |
| Storage temperature | -10°C ÷ +70°C |
| Protection class | IP 65 (front), optional integrated frame for panel cut-out sealing; IP 20 (case and connection clips) |
| Case | panel mounting; material: NORYL - GFN2S E1 |
| Dimensions | case (WxHxD): 96 x 48 x 100 mm panel cut-out dimensions: 90.5 x 43 mm installation depth: min. 102 mm board thickness: standard 7 mm or other depending on used board thickness brackets (see Accessories) |
| Weight | 220 g max. |

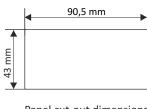




DIMENSIONS

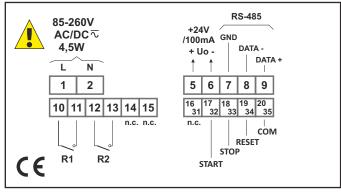


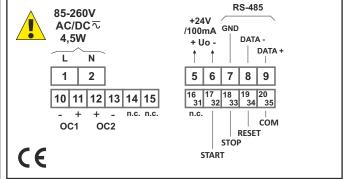




Panel cut-out dimensions

EXAMPLARY PIN ASSIGNMENT

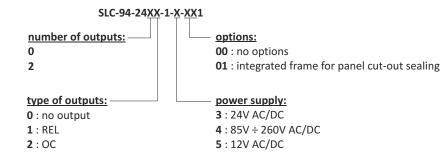




version with 2 x REL

version with 2 x OC

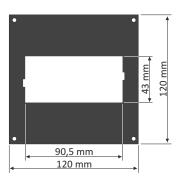
ORDERING



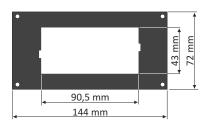


simex

MOUNTING PLATES



SMP-99/94 to mount 96 x 48 mm size unit in place of 96 x 96 mm cut-out



SMP-147/94 to mount 96 x 48 mm size unit in place of 144 x 72 mm cut-out

BOARD THICKNESS BRACKETS / ADAPTORS



SPH-07 1 ÷ 7 mm board thickness brackets (2 pcs)

standard included with device



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



SPH-051 ÷ 5 mm board thickness brackets (2 pcs)



SRH-94 brackets for mounting devices on DIN 35/7.5 or 15 rail (2 pcs)

SOFTWARE



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Contract recovery Topics Configuration (9 No)

Topics Contract Topics Configuration (9 No)

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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** converter 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 $\mbox{SRS-U4}$ can be also manufactured with DIN mounting adaptor.

