

The **SWE-94-U** meter is equipped with one universal input: 0/4-20 mA, 0-10V, 0-150 mV, RTD (Pt 100/500/1000) or thermocouple (K, S, J, T, N, R, B, E). Temperature of cold ends is compensated automatically. RTD and TC inputs are fully linearised. It is allowed to use only one input at the same time. SWE-94-U enables user to select a characteristic conversion of several kinds: linear, square, square root, user defined. The device is equipped with RS-485 / Modbus RTU communication interface. Over more communication interface RS-485 enables data transmission in any monitoring system equipped with Modbus RTU protocol. The meter can be ordered in 3 power supply versions. The meter can be configured with IR remote controller or free S-Config software via the RS-485 communication port.

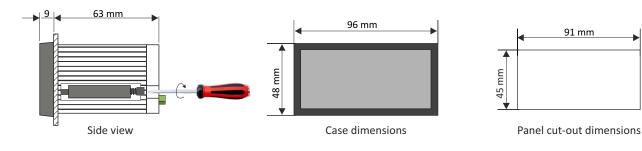
TECHNICAL DATA

Power supply Power consumption	110V AC ± 10% separated, 230V AC ± 10% separated or 24V DC (10V ÷ 30V DC) not separated from measurement input; for 110V AC and 230V AC: max. 1,5 VA; for 24V DC: max. 1 W
Display	LED, red, 4 x 20 mm high, brightness adjustable in 8 steps
Input	current: 0-20 mA or 4-20 mA, input resistance < 65 Ω (typ. 30 Ω), overload protected, input current is limited to 50 mA; voltage: 0-5 V, 1-5V, 0-10V or 2-10V, input resistance > 100 kΩ; milivoltage: 0-60 mV, 0-75 mV, 0-100 mV or 0-150 mV, res. inp. > 1,5 MΩ RTD: Pt100, Pt500, Pt1000, measurement wires resistance: max. 20 Ω (every wire), measuring range -100°C \div 600°C; thermocouple: K, S, J, T, N, R, B, E type; measuring range: -200°C \div +1370°C (K); -50°C \div +1768°C (S); -210°C \div +1200°C (J); -200°C \div +400°C (T); -200°C \div +1300°C (N); -50°C \div +1768°C (R); +250°C \div +1820°C (B); -200°C \div +1000°C (E)
Display range	-999 ÷ 9999 plus decimal point
Accuracy	0.1% @25°C ± one digit (current, voltage, milivoltage, RTD, TC: K, J, E); 0,2% @25°C (TC N); 0,5% @25°C (TC: S, T, R, B)
Stability	50 ppm/°C
Communication interface	RS-485, 8N1 and 8N2, 1200 bit/s ÷ 115200 bit/s, Modbus RTU (not galvanically isolated)
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	<u>case (WxHxD)</u> : 96 x 48 x 72 mm <u>panel cut-out dimensions</u> : 91 x 45 mm <u>installation depth</u> : min. 88 mm <u>board thickness</u> : max. 6 mm
Weight	205 g max.

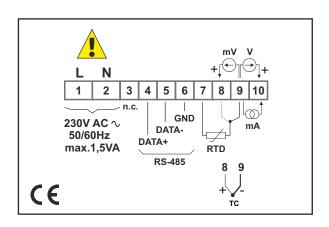




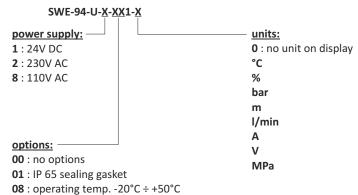
DIMENSIONS



PIN ASSIGNMENTS



ORDERING



OP : IP 65 sealing gasket + operating temp. $-20^{\circ}C \div +50^{\circ}C$





MOUNTING PLATES



SMP-147/94

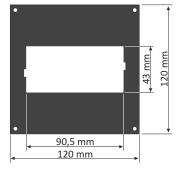
to mount 96 x 48 mm

of 144 x 72 mm cut-out

size unit in place

43 mm mm

72



REMOTE CONTROLLER



SIR-15

SMP-99/94

to mount 96 x 48 mm

of 96 x 96 mm cut-out

size unit in place

InfraRed remote controllers 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. Functions of particular keys depend on devices features.

90,5 mm 144 mm

Power supply voltage: Operation range:

6V DC - 4 alkaline batteries type LR44 from 0,5 to 5 m (depend on programmed device features)

SOFTWARE



▼ 00:00:00 → 2011.07-20 • 23.45.00 + Retech Pirt. 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 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.