

SWE-94-U



IR remote controller
SIR-15

Remote controller is not a part of the device and is available on request as optional accessory.

- low-cost meter with a large, 20 mm high display
- universal input: 0/4-20 mA, 0-10V, 0-150 mV, RTD or TC
- RS-485 / Modbus RTU
- all parameters are freely programmable from the PC or remote control
- signal peak value detection
- brightness adjustable in 8 steps

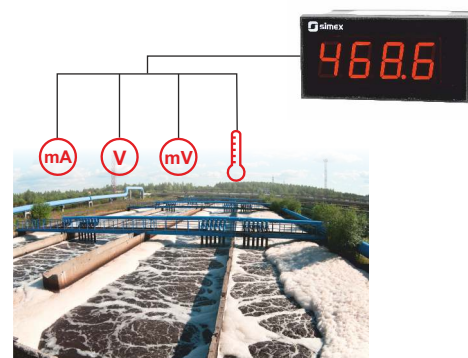
The **SWE-94-U** meter is equipped with one universal input: 0/4-20 mA, 0-10V, 0-150 mV, RTD (Pt 100/500/1000) or thermocouple (K, S, J, T, N, R, B, E). Temperature of cold ends is compensated automatically. RTD and TC inputs are fully linearised. It is allowed to use only one input at the same time. 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. The device can be configured via IR remote controller or optionally by PC free S-Config software, via RS-485 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.

TECHNICAL DATA

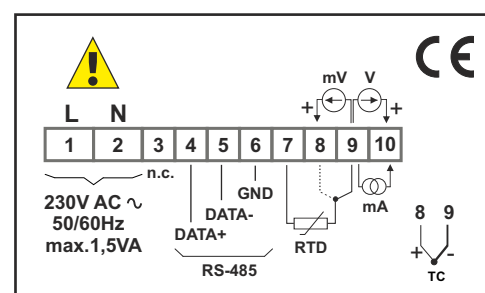
Power supply	110V AC $\pm 10\%$ separated, 230V AC $\pm 10\%$ separated or 24V DC (10V $\div$ 30V DC) not separated from measurement input;
Power consumption	for 110V AC and 230V AC: max. 1,5 VA; for 24V DC: max. 1 W
Display	LED, red, 4 x 20 mm high, brightness adjustable in 8 steps
Input	<u>current</u> : 0-20 mA or 4-20 mA, input resistance < 65 Ω (typ. 30 Ω), overload protected, input current is limited to 50 mA; <u>voltage</u> : 0-5 V, 1-5V, 0-10V or 2-10V, input resistance > 100 k Ω ; <u>milivoltage</u> : 0-60 mV, 0-75 mV, 0-100 mV or 0-150 mV, res. inp. > 1,5 M Ω <u>RTD</u> : Pt100, Pt500, Pt1000, measurement wires resistance: max. 20 Ω (every wire), measuring range -100°C $\div$ 600°C; <u>thermocouple</u> : 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 $\div$ 9999 plus decimal point
Accuracy	0.1% @25°C $\pm$ 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 $\div$ 115200 bit/s, Modbus RTU (not galvanically isolated)
Operating temp.	0°C $\div$ +50°C (standard), -20°C $\div$ +50°C (option)
Storage temp.	-10°C $\div$ +70°C (standard), -20°C $\div$ +70°C (depending on option)
Protection class	IP 65 (front side when an optional seal is installed); IP 40 (front side); IP 20 (case and connection clips)
Case	board; 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.

TYPICAL APPLICATIONS

- Indication of current values of any parameters
- Application wherever there is a need for a quick view of many parameters, i.e. in a synoptic system.



EXAMPLARY PIN ASSIGNMENT



ORDERING

SWE-94-U-X-XX1-X

power supply:

- 1 : 24V DC
- 2 : 230V AC
- 8 : 110V AC

options:

- 00 : no options
- 01 : IP 65
- 08 : operating temp. -20°C $\div$ +50°C

units:

- 0 : no unit on display
- °C
- %
- bar
- m
- l/min
- A
- V

ACCESSORIES



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