SWE-73-A

- **low-cost meter in a small case**
- **input: 0/4-20 mA; 0/1-5V; 0/2-10V**
- **RS-485 / Modbus RTU**
- **IR remote controller**

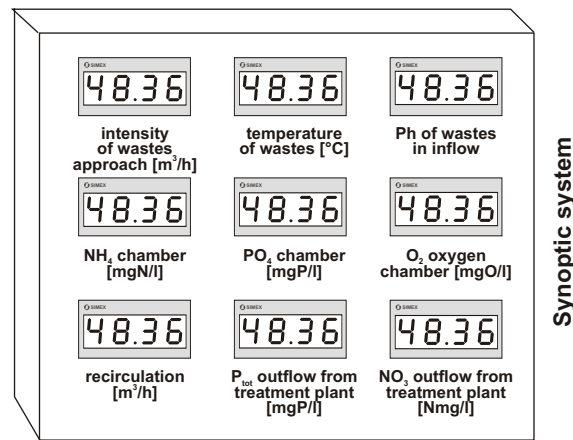 **as accessory**

IR remote controller
SIR-15

CE

The **SWE-73** efficiency indicators are low-cost and affordable panel-mounted digital indicators. They are available in three versions: current/voltage (-A), temperature (-T, description on page 1.3.1) and without analog input, only with serial input (-S, description on page 1.4.1). The 16-bit A/D converters used in them ensure very high stability and measurement precision. Parameters can be programmed freely through an infrared link or through the RS-485 interface, built-in as a standard. Configuration of the device can also be programmed to the customer's order. The RS-485 interface makes it easy to set up measurement networks in production process monitoring systems, and also to use the indicators as smart, programmable, digital converters of input signals for computer systems. An additional advantage of the device is that its dimensions are small and it can be easily mounted.

- input type defined from menu (current or voltage),
- all parameters are freely programmable from the PC or remote control (measurement range, indication filtering range).
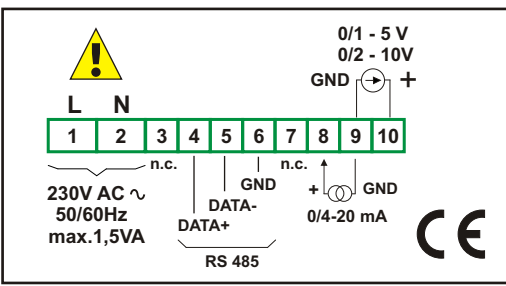
Typical applications

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

48.36	48.36	48.36
intensity of wastes approach [m³/h]	temperature of wastes [°C]	Ph of wastes in inflow
48.36	48.36	48.36
NH₄ chamber [mgN/l]	PO₄ chamber [mgP/l]	O₂ oxygen chamber [mgO/l]
48.36	48.36	48.36
recirculation [m³/h]	P_tot outflow from treatment plant [mgP/l]	NO₃ outflow from treatment plant [Nmg/l]

Synoptic system

Examplary pin assignment

⚠

0/1 - 5 V
0/2 - 10V
GND ⊕ +

L N
1 2 3 4 5 6 7 8 9 10
n.c.   n.c.

230V AC ~
50/60Hz
max.1,5VA

GND
DATA-
DATA+
+ GND
0/4-20 mA

RS 485

CE

Ordering

SWE-73-A-X-XX1*

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

power supply:
1 : 24V DC
2 : 230V AC
8 : 110V AC

* When configuration of the device should be set by SIMEX it's necessary to determine:
- type of input (0-20 mA, 4-20 mA, 0-5 V, 1-5 V, 0-10 V, 2-10 V),
- the beginning of measuring range according to 0/4 mA or 0/1/2 V (depending on version)
- the end of measuring range according to 20 mA or 5/10V (depending on version).

Technical data

Power supply: 110V AC ± 10% separated, 230V AC ± 10% separated or 24V DC (10V ÷ 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 13 mm high
Input: current 0-20 mA or 4-20 mA, user programmable (it's possibly to set it according to the order), overload-protected, input current limited to about 50 mA; voltage 0-5 V, 1-5V, 0-10V or 2-10V, user programmable (it's possibly to set it according to the order)
Displayed values range: -999 ÷ 9999 user programmable also with decimal point (it's possibly to set it according to the order)
Accuracy: 0.1% @25°C
Stability: 50 ppm/°C
Communication interface: RS-485 (Modbus RTU), not galvanically isolated
Transmission speed: adjustable in range from 1200 to 115200 bit/sek.
Transmission parameters: 8/1/N
Operating temperature: 0°C ÷ +50°C (standard), -20°C ÷ +50°C (option)
Storage temperature: -10°C ÷ +70°C (standard), -20°C ÷ +70°C (with option **08**)
Protection class: IP 40 (front side); IP 65 (front side when an optional seal is installed); IP 20 (case and connection clips)
Case: board
Case material: NORYL UL94V-0
Case dimensions: for 24V DC: 72 x 36 x 77 mm; for 230V AC: 72 x 36 x 94 mm
Panel cut-out dimensions: 67 x 32,5 mm
Installation depth: for version 24V DC: min. 78 mm; for 230V AC: min. 95 mm
Board thickness: max. 5 mm

Accessories

IR programmer
SIR-15