WALL MOUNTED DEVICES

Meters
Controllers
Counters
Serial displays

Measure,
Control and Log Data

Wall mounted devices

- **METERS**
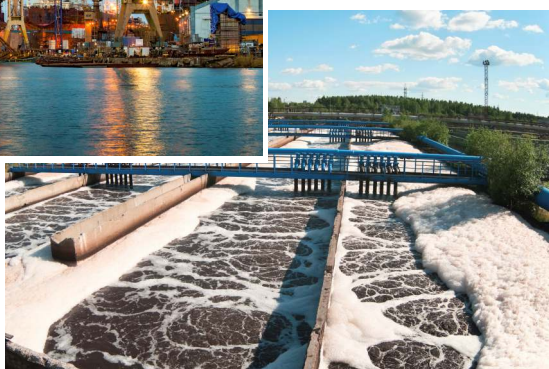- **CONTROLLERS**
- **COUNTERS**
- **SERIAL DISPLAYS**

Digital counters and industrial meters constitute the greatest branch of automation devices. The group includes simple indicators intended for displaying basic parameters / operating states and physical values (i.e. temperature, level, pressure etc.), and also more sophisticated controllers of those values, equipped with several control outputs. The devices are equipped with analogue (current, voltage, RTD, or TC type), binary, or serial inputs. The inputs applied are dependent on the kind of measuring signal and the type of sensor connection.

Wall-mounted devices are an extraordinary series of counters and meters. Their greatest advantages are an extremely hermetic housing (IP67) and the possibility of both an indoor and outdoor installation.

The control functions of those devices are very meaningful as well. While adjusting a model to the requirements of a particular application a user can choose between binary and analogue outputs: current and voltage ones. Wide range of outputs and the possibility of using various types of those outputs in one device make it possible to apply the counters and meters to controlling purposes in simple and more sophisticated systems for signalling, alarming, and controlling.

Applications

- **water supply and sewage systems**
- **machine industry**
- **food industry**
- **chemical industry**
- **pharmacy**
- **heavy and mining industry**
- **tire and rubber industry**
- **cable industry**
- **shipbuilding industry**

Technical data

- meter, controller, counter, flow counter, tachometer, timer, etc.
- tight IP 67 case
- wall mounting
- **extended** displayed values range untill 6 digits: -99999 ÷ 999999
- analogue and binary inputs
- binary outputs: REL / OC
- analogue output: active or passive
- temperature range -20°C ÷ +50°C
- RS-485 / Modbus RTU
- signal peak value detection
- free configuration software S-Config 2

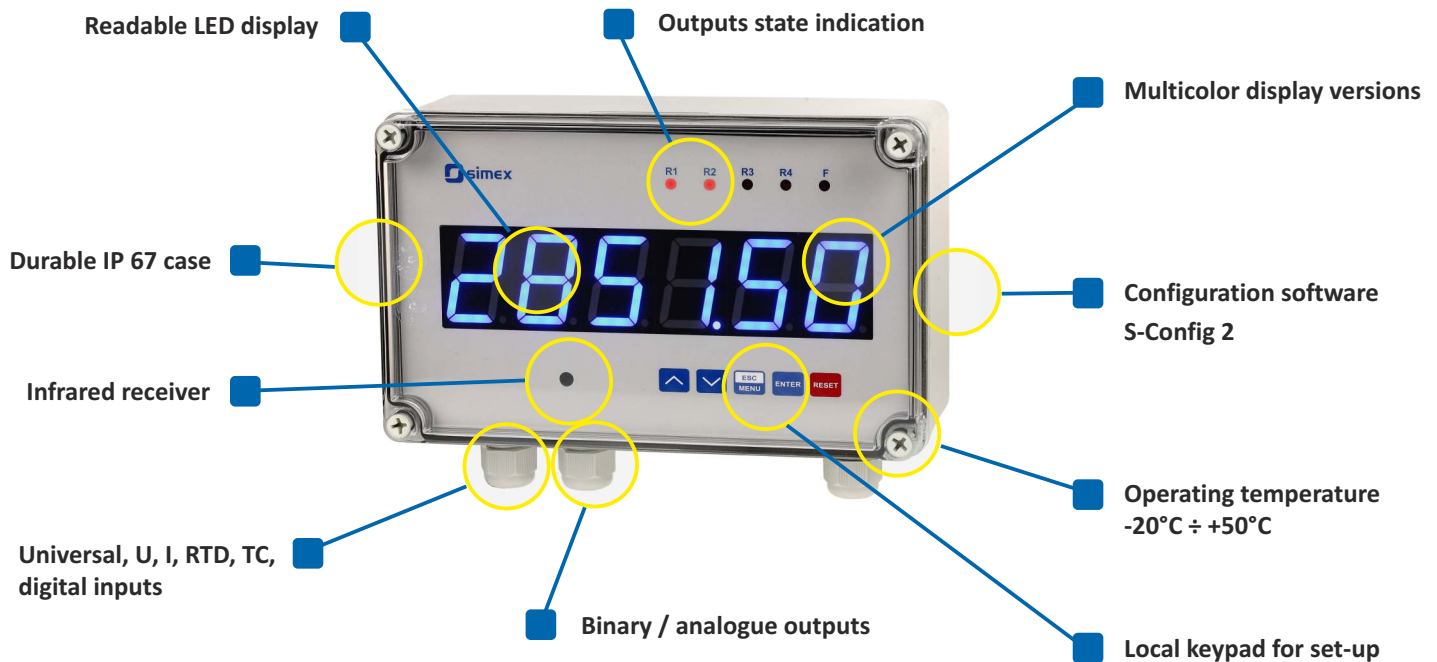| INDICATOR / CONTROLLER		SWE-N55L	N118 / N1186	457	638	W410
Power supply		from measurement line, min. current 3.5 mA, max. voltage drop 7V	19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC			
Display		LED, 4 x 13 mm, red	LED, 4 x 20 mm / 6 x 13 mm, red or green	LED, 4 x 57 mm, red, green, blue, multicolor	LED, 6 x 38 mm, red, green, blue	LED, 6 x 100 mm, red
Input	Function					
universal			-	controller SUR-457		controller SUR-W410
0/4-20 mA		indicator SWE-N55L	controller SRP-N118; controller SRP-N1186; flow counter SPP-N118	-	flow counter SPP-638	-
0/1-5V, 0/2-10V		-	controller SRP-N118	-	-	-
0-60/0-75/0-100/0-150 mV		-	controller SRP-N118	-	-	-
RTD: Pt100, Pt500, Pt1000		-	controller SRT-N118	-	-	-
TC: K, S, J, T, N, R, B, E		-	controller SRT-N118	-	-	-
pulse		-	pulse counter SLIK-N118; flow counter SPI-N118; tachometer STI-N118	timer SLC-457	pulse counter SLIK-638; flow counter SPI-638; tachometer STI-638	-
serial RS-485		-	serial display SWS-N118	serial display SWS-457	serial display SWS-638	-
Binary output		1 x bistable relay 30V/500 mA	0, 2 or 4 REL / OC	0, 2 or 4 REL / OC	0, 2 or 4 REL / OC	2 or 4 REL / OC
Analogue output		none	active current: 0/4-20 mA, passive current: isolated, 4-20 mA, active voltage: 0/1-5V, 0/2-10V	active current: 0/4-20 mA, passive current: isolated, 4-20 mA, active voltage: 0/1-5V, 0/2-10V	active current: 0/4-20 mA, passive current: isolated, 4-20 mA, active voltage: 0/1-5V, 0/2-10V	active current: 0/4-20 mA, passive current: isolated, 4-20 mA, active voltage: 0/1-5V, 0/2-10V
Power supply output		none	24V DC / max. 100 mA	24V DC / max. 100 mA	24V DC / max. 100 mA	24V DC / max. 100 mA
Communication interface		none	RS-485, Modbus RTU, 1200 ÷ 115200 bit/s			
Protection class		IP 65	IP 67	IP 67	IP 67	IP 30
Operating temperature		0...+50°C (standard), -20...+50°C (option)	0...+50°C (standard), -20...+50°C (option)			
Case dimensions		without gland/connector: 64 x 58 x 36 mm, with gland: 64 x 82 x 36 mm, with M12 connector: 64 x 73 x 36 mm	without glands: 110 x 80 x 67 mm, with glands: 110 x 105 x 67 mm	without glands: 230 x 140 x 96,5 mm, with glands: 230 x 168 x 96,5 mm	without glands: 230 x 140 x 96,5 mm, with glands: 230 x 168 x 96,5 mm	578 x 208 x 102 mm
Glands		gland M16x1,5 (standard); socket M12, 5-pin + straight cable plug, 5-pin, with PG7 gland (option)	M12, cable diameter 3 ÷ 6,5 mm	M16, cable diameter 5 ÷ 10 mm	M16, cable diameter 5 ÷ 10 mm	-

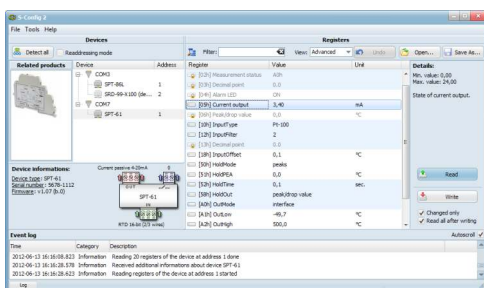| SERIAL DISPLAYS / CLOCKS	W510	W606	W610
Power supply	19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC	12V ÷ 30V DC	19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC
Display	LED, 5 x 100 mm, red	LED, 6 x 57 mm, red	LED, 4 x 100 mm + 2 x 57 mm, red
Input: - serial RS-485 - digital temperature sensor and/or humidity - DCF77 receiver	serial display SWS-W510 - -	serial display SWS-W606 - -	- clock SWZ-W610 clock SWZ-W610
Outputs	none	none	none
Power supply output	24V DC / max. 100 mA	24V DC / max. 100 mA	24V DC / max. 100 mA
Communication interface	RS-485, Modbus RTU, 1200 ÷ 115200 bit/s	RS-485, Modbus RTU, 1200 ÷ 115200 bit/s	RS-485, Modbus RTU, 1200 ÷ 115200 bit/s
Protection class	IP 30	IP 30	IP 30
Operating temperature	0°C ÷ +50°C (standard), -20°C ÷ +50°C (option)	0°C ÷ +50°C (standard), -20°C ÷ +50°C (option)	0°C ÷ +50°C
Case dimensions	578 x 208 x 102 mm	364 x 112 x 44 mm	578 x 208 x 102 mm

Multicolor display versions for 457 and 638 series devices

Main features

Readable LED display

Outputs state indication

Multicolor display versions

Durable IP 67 case

Configuration software S-Config 2

Infrared receiver

Operating temperature -20°C ÷ +50°C

Universal, U, I, RTD, TC, digital inputs

Binary / analogue outputs

**Local keypad for set-up**

PC Software

S-Config 2

The software is used for a simultaneous detection of devices in multiple Modbus RTU networks and provides users with a possibility of changing the configuration of most of the devices. There is a list of registers presented for each detected device. The registers can be modified by users. The lists also include additional information concerning device parameters, such as: type, address, baud rate, etc.

SimCorder Soft

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.
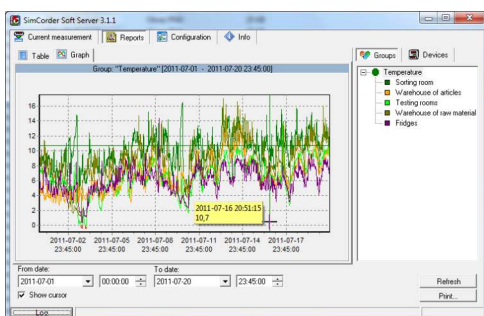
- **DAQ systems data recording**
- **emails and SMS notifications**
- **semiSCADA visualization module**