







SRP-N1186

SRP-N118 / SRP-N1186

- process meter in wall-mounted IP 67 case
 - extended displayed values range untill 6 digits: -99999 ÷ 999999
- input: 0/4-20 mA, 0/1-5V, 0/2-10V
- 0 or 2 REL / OC outputs
 - analogue output: active or passive (option)
- power supply output: 24V DC
- RS-485 / Modbus RTU
- signal peak value detection
- free configuration software S-Config

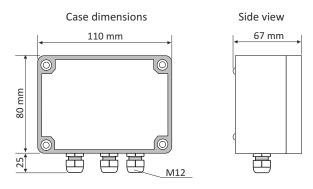
The SRP-N118(6) meter is designed for measuring of typical current or voltage signals. The readouts are presented on well-readable display with standard range of four digits or five/six digits for more demanding applications (e.g. measurement range: 4 - 20 mA, indications range: 0 - 20 000 kg). Thanks to the tight housing with high (IP 67) protection degree, this device is particularly suitable for operations in harsh environments. Wide range of characteristic curves (linear, square root, quadratic, user-defined and volume characteristic for cylindrical tanks) allows the use of meters in various process control systems. The 24V DC / 100 mA output is designed to supply measuring transducers, and the RS-485 port enables data transmission in production process monitoring systems. The REL / OC control outputs can adjust the level of measured signal and are controlled according to one or two threshold values. Moreover, the meter can be equipped with analogue outputs, according to the customer selection: active current output, passive isolated current output or active voltage output. The meter may be configured with no need to open the case, by using the remote controller or with free S-Config software via the RS-485 communication port.

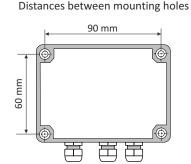
TECHNICAL DATA

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. 5 VA; for 19V ÷ 50V DC power supply: max. 5 W 10splay LED, 4 x 20 mm or 6 x 13 mm high, red (green - on request), brightness adjustable in 8 steps 10splayed values -999 ÷ 9999 or -99999 ÷ 999999 + decimal point 10put 10pu		
Displayed values -999 ÷ 9999 or -99999 ÷ 999999 + decimal point		
Input current: 0-20 mA or 4-20 mA, programmable, input resistance < 65 Ω (typ. 55 Ω), overload-protected, input current limited to 40 mA; voltage; 0-5 V, 1-5V, 0-10V or 2-10V, programmable, input resistance > 50 kΩ Accuracy 0.1% @25°C ± one digit Stability 50 ppm/°C Outputs (option) 0 or 2 x REL I _{ma} =5A, U _{ma} =30VDC/250VAC (cosø=1) or OC I _{ma} =30mA, U _{ma} =30VDC, P _{ma} =100mW Analogue output (available with 1 x REL or OC, see ordering) active current: operating range 0/4-20 mA (max. 0-24 mA), load resistance 700 Ω max., resolution 13 bit passive current: isolated, operating range 4-20 mA (max. 2,8-24 mA), load resistance 600 Ω@24VDC, resolution 13 bit active voltage: operating range 0/1-5V, 0/2-10V (max. 0-11V), load resistance min. 2000 Ω, resolution 13 bit 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) 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 67 Case wall mounting; material: ABS + polycarbonate (standard); 100% polycarbonate (on request) Glands M12, cable diameter 3 ÷ 6,5 mm Dimensions (WxHxD) without glands: 110 x 80 x 67 mm; with glands: 110 x 105 x 67 mm	Display	LED, 4 x 20 mm or 6 x 13 mm high, red (green - on request), brightness adjustable in 8 steps
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DIMENSIONS



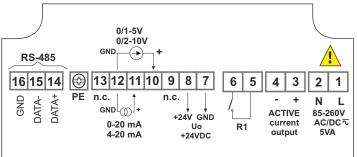


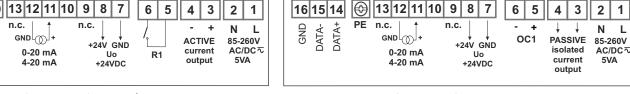


0/1-5V

0/2-10V

EXAMPLARY PIN ASSIGNMENTS

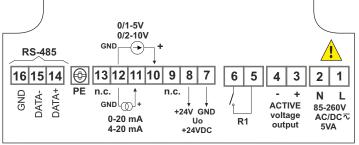


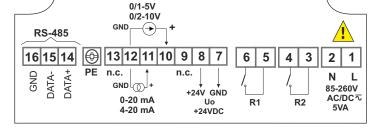


RS-485

version with 1 x REL and 1 x AO 0/4-20 mA, active

version with 1 x OC and 1 x AO 4-20 mA, passive





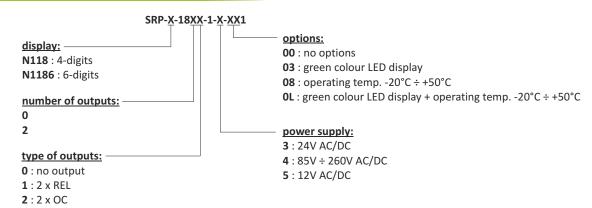
version with 1 x REL and 1 x AO 0/1-5V, 0/2-10V, active

3:1x REL + 1 x AO (0/4-20 mA, active, non-isolated) 4:1x OC + 1 x AO (0/4-20 mA, active, non-isolated) 9:1x REL + 1 x AO (4-20 mA, passive, isolated) A:1x OC + 1 x AO (4-20 mA, passive, isolated)

B: 1 x REL + 1 x AO (0/1-5V, 0/2-10V, active, non-isolated) **C**: 1 x OC + 1 x AO (0/1-5V, 0/2-10V, active, non-isolated)

version with 2 x REL

ORDERING



SensaCo Ltd. |6 Fortuna Court | Calleva Park | Aldermaston | RG7 8UB | U.K.

SensaCo Ltd.

REMOTE CONTROLLER



The SIR-25 infraRed remote control 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. The remote control features a five-button keyboard, including the $F/\Sigma/RESET$ function button dedicated to the operation of the devices in the following group: counters, flow meters, and tachometers. Functions of particular keys depend on devices features.

Power supply voltage: 3V DC - 1 lithium battery CR2032 type

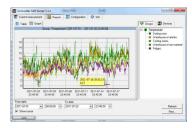
from 0,5 to 5 m (depend on programmed device features) Operation range:

SOFTWARE



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 SRS-U4 can be also manufactured with DIN mounting adaptor.