SOC-8

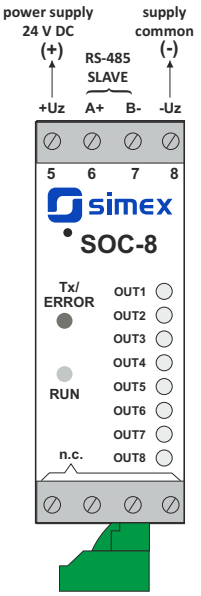
- **binary outputs module**
- **8 independent OC outputs**
- **RS-485 / Modbus RTU**
- **galvanic separation of the outputs from the module supply voltages**
- **signalling of output state**
- **LEDs for module operation and Modbus transmission signalling**
- **output lines connected by means of the socket-plug connectors**

The **SOC-8** binary outputs module is used to control the low-power output devices via the RS-485 connection. It finds application in distributed control and visualization systems. It can directly control, for example, contactors, relays, light bulbs and other DC loads with the 24V control (supply) voltage and the 0,5A current (maximum). Galvanic separation of all outputs ensures safe operation of the master system, without the risk of damage caused by dangerous overvoltage. All **SOC-8** operating functions, available via the RS-485, can be implemented from any typical visualization software or, for instance, with a suitably **MultiCon** controller.

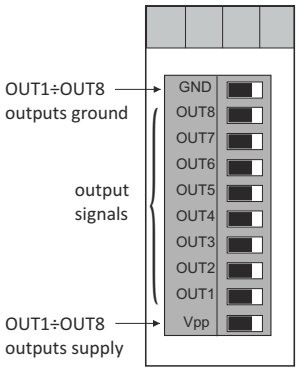
TECHNICAL DATA

Power supply **Current consumption**	10V ÷ 30V DC; external fuse (required): T - type, max. 1 A 20 mA typical
Outputs	8 independent OC outputs
Max output current:	0.5A / single output, max. 2 active outputs; 0.2A / single output, all outputs active
Galvanic separation	all 8 outputs are galvanically isolated from module supply and RS-485 interface
Communication interface	RS-485, 1200 ÷ 115200 bit/s, 8N1, Modbus RTU
Number of modules	max. 128 in a single network
Data memory	non-volatile memory, EEPROM type
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**)
Humidity	max. 90%, non-condensing
Protection class	IP 20 (housing and connection clips)
Case	on the 35 mm strip; material: ABS
Dimensions	101 x 22,5 x 80 mm
Weight	120 g max.

TERMINALS CONNECTION



front view



bottom view

CONNECTION AND PRINCIPLE OF OPERATION

Connect the supply voltage to the module (+Uz, -Uz, typically 24V DC) and two wires RS-485 (A+, B-) communication interface. Outputs are placed on bottom side of the module. Connect the common signal and the polarization voltage (GND and Vpp) on the outputs' side. It is recommended that those signals be separated from the module supply voltage (i.e. by using the PS-series separate power supply adapters manufactured by SIMEX). The load control is effected by closing the common signal (GND) contact which is connected to the **SOC-8**.
Directly after power on the device is signalling its normal operation flashing green LED, marked „RUN" (about 2 times/sec.). Short flashes of LED marked "TX/ERROR" signalize activity of RS-485 interface, and permanent light of this LED means malfunction of the device.
Red LEDs marked "OUT1" ÷ "OUT8" signalize active state of outputs. Pay special attention for permissible currents of outputs, and the sum of all currents.

ORDERING

SOC-8-XX1

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