

## SIAi-8

- analogue inputs module
- 8 independent analogue inputs  
(voltage or current)
- RS-485 / Modbus RTU
- LEDs for module operation  
and Modbus transmission signalling

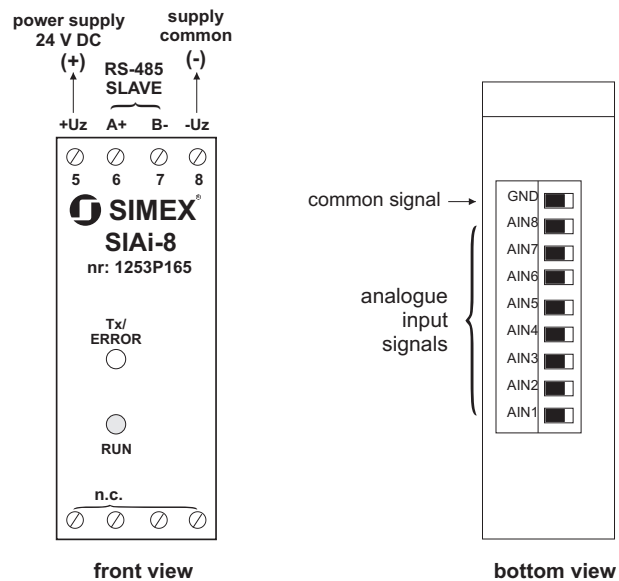


Module **SIAi-8** is used to measuring values from 8 analogue inputs via the RS-485 connection. It finds application in distributed control and visualization systems.

Standard functions of Modbus transmission allow changing of device address or detect its type. All **SIAi-8** operating functions, available via the RS-485, can be implemented from any typical visualization software or, for instance, from a suitably programmed SPA-99 operator panel.

- galvanic separation of the analogue inputs from the module supply voltages,
- signalling MODBUS correct operation and transmission,
- input signals connected by means of the socket-plug connectors.

### Connection terminals



### Connection

Connect the supply voltage to the module (+U<sub>z</sub>, -U<sub>z</sub>) 24V DC typical and the two-wire RS-485 connection (A+, B-). Module inputs are located on the lower edge of the case (look: bottom view).

Directly after supply voltage being connected, the device will signal normal operation by a flashing (2 flashes per second) green LED marked as RUN. Short flashes of the red LED marked as TX/ERROR mean transmission over the RS-485 connection: data flow between module and Master device. Module makes the measurements from eight inputs in cycles.

### Technical data

**Power supply voltage:** 24V DC typical

**Maximum supply voltage fluctuations:** from +16V DC to +26V DC

**Current consumption:** 55 mA typical

**Number of independent analogue inputs:** 8

**Inputs:** SIAi-8P: current 0-20 mA; 4-20 mA

SIAi-8N: voltage 0-10 V; 2-10 V; 0-5 V; 1-5 V

**Galvanic separation:** all 8 inputs separated from the module supply and RS-485 connection signals

**Communication interface:** RS-485

**Transmission protocol:** Modbus RTU

**Baud rate:** 1200 - 115200 bit/sek.

**Number of modules in a single network:** max. 128

**Operating temperature:** 0°C ÷ +50°C

**Storage temperature:** -10°C ÷ +70°C

**Humidity:** max. 90%, non-condensing

**Protection class:** IP 20 (case and connecting terminals)

**Installation method:** on the 35 mm strip

**Case dimensions:** 101 x 22,5 x 80 mm

### Ordering

**SIAi-8X-001**

**type of inputs:**

**N** : voltage inputs

**P** : current inputs