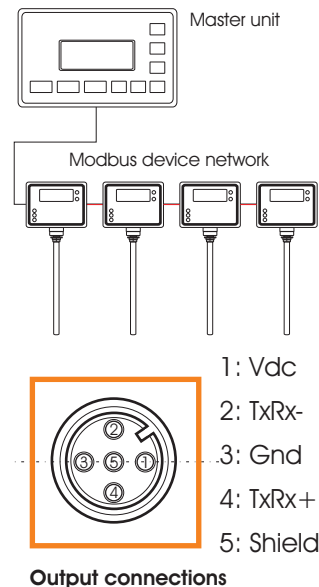
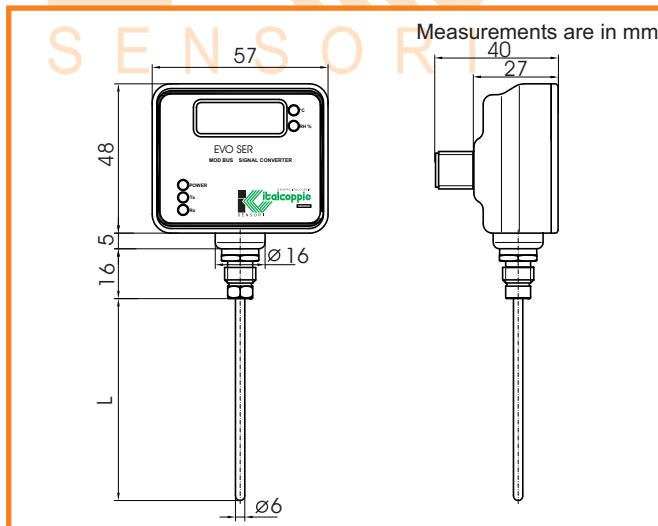


EVO SER-UI TEMPERATURE AND HUMIDITY SENSOR WITH RS-485 SERIAL OUTPUT (MODBUS RTU) VERSION FOR DUCT

By a single cable, it is possible create a sensors network and interfacing them directly to a PLC or a PC equipped with a supervisory software (SCADA). The connection between the devices is realized with M12 connectors for rapid installation without errors and with degree of protection IP67. The stem realized with flexible compact mineral insulated cable ($\varnothing 6\text{mm}$) it is available in different lengths and is ideal for critical mechanically applications ; in additions are available various types of process connection welded to the stem and also sinterized filters.



TECHNICAL DATA

Body:

Thermoplastic material color gray

Stem dimensions:

Length: 100, 250, 500 mm (other lengths available on request)
Diameter: $\varnothing 6\text{ mm}$

Probe type:

Compact mineral insulated AISI 316L s.s.

Probe minimum bending radius::

Three-times the diameter \varnothing (except the sensing tip wich length is about 40mm)

Connectors:

N° 2 M12-5 pole male in accordance to VDE0627

Sensor:

Digital sensor model SENSIRION STH75
Range: $-40 \div 120^\circ\text{C}$ for temperature and $0 \div 100\%$ for relative humidity RH
Tmax. electronic: 65°C

Filter:

Standard: diameter 6mm, integrated to the stem
Optional: different types of sinterized filters diameter 15mm (unscrewable, for a simple cleaning)

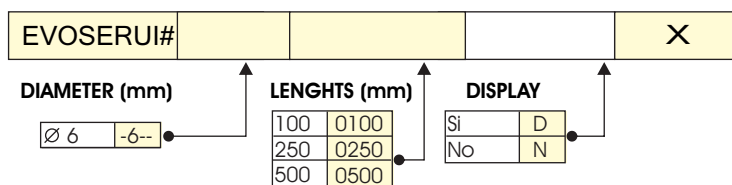
Sensor break monitoring:

Blink of the green led Power

Output:

RS485 serial interface (not isolated)
Communication protocol: Modbus RTU (max. baud rate 38.400bps)
Max. connection distance: 1.200 m. (*)
Max. number of devices on the network: 32
(*) The max distance is in according to power supply and type of cable used to connect the devices

CODE TO ORDER:



Power supply:

$12 \div 30\text{Vdc}$ (polarity protected)
Consumption: 0,25W without display, 0,5W with display

Enviroments conditions:

Temperature: $-20 \div 65^\circ\text{C}$ (for plastic body)
Relative humidity: $0 \div 100\%$
EMC: in accordance to IEC 61326

Degree of protection:

IP65 and IP67 in accordance to IEC 60529

Accuracy:

Take as reference the graph

Response time:

<30 sec. without filter

Main parameters:

Temperature $^\circ\text{C}$
Humidity % RH
Max. and Min. temperature & Humidity peaks
Bias to adjust the measures
Watch dog serial communication and power-on

Device programming:

Through the ki EVOSER SET or using an USB-RS485 converter and the software application EVOSER CONF

Options:

4 digits display, wall-mounting bracket, cable with integrated M12 connectors, different types of sinterized filters available.

Note:

Available also for ambient version (EVOSER-UC)

