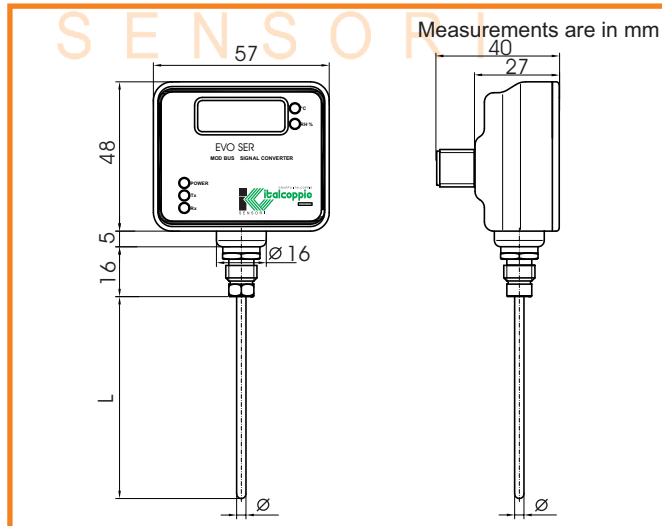


By a single cable, it is possible create a sensors network and interfacing them directly to a PLC or a PC equipped with a supervisory software (SCADA). The connection between the devices is realized with M12 connectors for rapid installation without errors and with degree of protection IP67. The stem realized with flexible compact mineral insulated cable ($\varnothing 3\text{mm}$ or $\varnothing 6\text{mm}$) 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.



TECHNICAL DATA

Body:

Thermoplastic material color gray

Stem dimensions:

Length: 10, 100, 250, 500 mm (other lengths available on request)
Diameter: $\varnothing 3$ & $\varnothing 6$ mm

Probe type:

Compact mineral insulated AISI 316 L s.s.

Probe minimum bending radius:

Three-times the diameter \varnothing (except the sensing tip wich length is about 30mm)

Connectors:

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

Sensor:

RTD Pt1000 class A up to 300°C in accordance to IEC751
Range: $-50 \div 450^\circ\text{C}$
Tmax. electronic: 65°C

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

Isolation Input/Output::

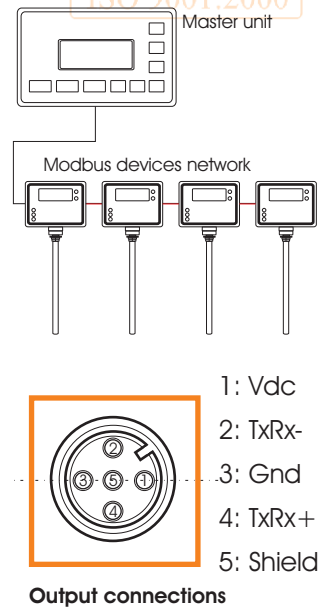
None

CODE TO ORDER:

EVOSERTI#								X	
DIAMETER (mm)		LENGTHS (mm)		DISPLAY					
$\varnothing 3$	-3--	10	0010	SI	D				
$\varnothing 6$	-6--	100	0100	No	N				
		250	0250						
		500	0500						

EVO SER-TI

TEMPERATURE SENSOR WITH RS-485 SERIAL OUTPUT (MODBUS RTU)



Power supply:

12 \div 30Vdc (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:

<3,5 sec. for diameter 3mm, <13 sec. for diameter 6mm
(Test in water in accordance to IEC751 – time for reaching 63,2% of thermal gap)

Main parameters:

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

Device programming:

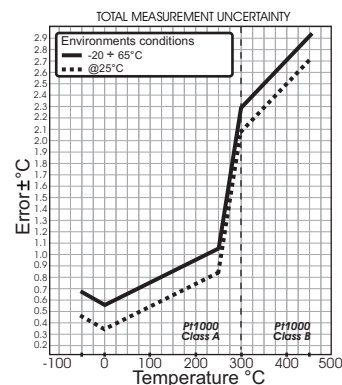
Through the kit EVOSERSET or using an USB-RS485 converter and the software application EVOSER CONF

Options:

4 digits display, wall-mounting bracket, cable with integrated M12 connectors, various types of process connection.

Note:

Available also without integrated probe (EVOSER)



Note: At temperature over 300°C, the accuracy of the sensor is to be considered class B

Note: The shown executions can be produced upon request for a minimum quantity to be order. We reserve the right for technical modifications without prior notice.

EVO SER-TI

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