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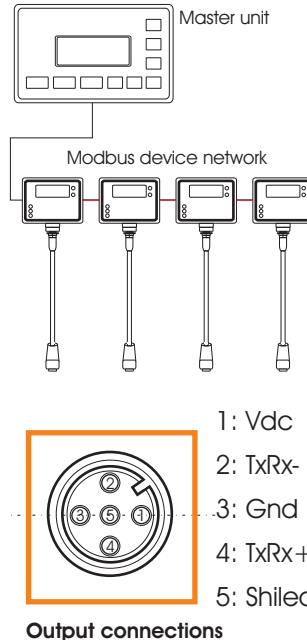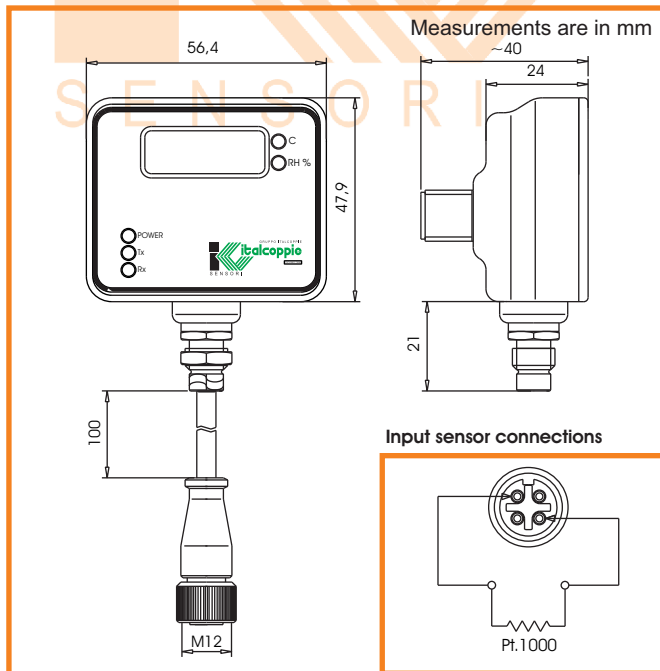## TEMPERATURE SENSOR WITH RS-485 SERIAL OUTPUT (MODBUS RTU)

ISO 9001:2000

By a single cable, it is possible made 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 temperature sensor is disconnectable from the device.

Measurements are in mm

56,4
~40
24
47,9
21
100
M12

Input sensor connections

Pt.1000

Modbus

Master unit

Modbus device network

Output connections

1: Vdc
2: TxRx-
3: Gnd
4: TxRx+
5: Shiled

TECHNICAL DATA

Body:
Thermoplastic material color gray

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

Sensor:
Pt1000 (alfa= 0,00385) 2-wire
Connection through M12-5 pole male connector
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

Power supply:
12÷30Vdc (polarity protected)
Consumption: 0,25W without display, 0,5W with display

Enviroments conditions:
Temperature: -20÷65°C (for plastic body)
Relative humidity: 0÷100%
EMC: in accordance to IEC 61326

Degree of protection:
IP65 and IP67 in accordance to IEC 60529

Accuracy of electronic section:
±0.3°C

Main parameters:
Temperature °C
Max. and Min. temperature peak
Bias to adjust the measures
Watch dog serial communication and power-on

Device programmation:
Through the kit EVOSER SETor using an USB-RS485 converter and the software application EVOSER CONF

Options:
4 digits display, wall-mounting bracket, cable with integrated M12 connectors

Note:
Available also with integrated probe (EVOSER-TI)

CODE TO ORDER:

EVOSER#		X

DISPLAY

Si	D
No	N

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.