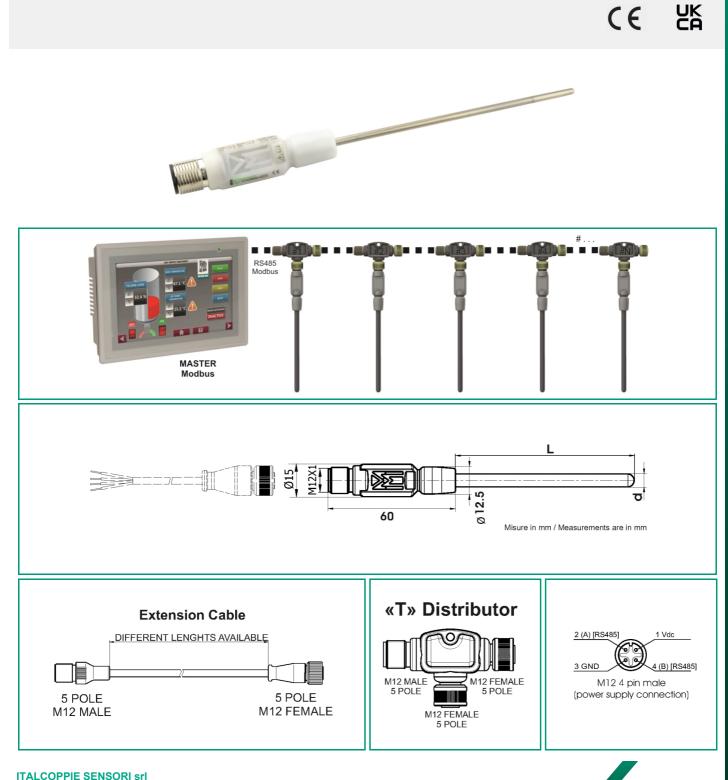


Rons

EvominiSerI-RTD

Programmable temperature transmitter with mineral insulated probe and Modbus RTU digital output (RS485)

Temperature transmitter with overmolded IP67 casing with M12 output connection. By using a single cable, it is possible to build a sensors network which can be directly connected to a PLC or a PC equipped with a supervisory software (SCADA). These devices are equipped with M12 connectors allowing for an easy and quick installation with degree of protection IP67.



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TECHNICAL SPECIFICATION

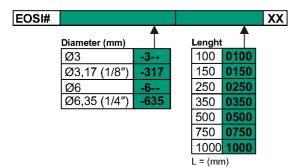
| TECHNICAL SPECIFICATION | |
|---|---|
| Power supply | 9 ÷32 Vdc (polarity protected) |
| Electronic board input | RTD Pt100 / Pt1000 (α= 0,00385 / α= 0,003916) 2, 3 o 4 wire connection |
| Sensor exciting current | ~100 uA |
| Sensor wire maximum resistance | 2 wire connection: 40 ohm |
| | 3 or 4 wire connection: 20 ohm/wire |
| Accuracy (*) (*) @25°C | Converter: ≤ ±0.2°C of the range Sensor element: Pt100 class A up to 300 °C according to IEC751 |
| Temperature influence (*) (*) deviation from 20°C | < ±0.25°C/25°C of the range |
| Electronic board operating temperature | -40 ÷80°C |
| Resolution | 0,1 °C |
| Linear error | Negligible |
| Sensor error compensation | (±5°C) over two points |
| Current consumption | <4mA with RS485 (<10mA at power on for approx. 8mS) |
| Communication protocol | Modbus RTU (max. baud rate 38.400) |
| Serial interface | RS-485 (not insulated) |
| Input/Output insulation | None |
| Maximum connection distance | 1000 meters, this distance depends on the power supply voltage and the type |
| | of cable used to connect the various devices maximum 32 (over is required to add a serial repeater) |
| Maximum devices on network | Maximum 32 (over is required to add a serial repeater) Maximum 256 nodes (it is recommended to use isolators / repeaters along the serial line) |
| Indicator LED | Blue LED, power supply and device operations indicator Red LED (ERR), sensor error indicator White LEDs (TX and RX), serial transmission and reception indicators |
| International protection marking (*) (*) According to IEC 60529 | IP65/67 |
| EMC | In accordance to EN 61326-1:2013 (CE) In accordance to BS EN 61326-1:2013 (UKCA) |
| Configuration | By using the EVOPLATFORMSET configuration kit (a PC with Windows OS is required). |
| Main device design parameters | Maximum and minimum temperature peak measured Temperature offset for measurement correction Serial communication and power-on watch-dog Temperature tenths °C |
| Measurement range | -50 ÷350°C |
| Material body | Thermoplastic |
| Type of connector | 1 input connector M12 x 4 male according to IEC 61076-2-101 STANDARDS (power supply / serial interface) |
| Stem length L | 150 mm 250 mm 350 mm Other lengths on request |
| Dimensional notes | Lengths other than those listed can be produced for minimum quantities to be agreed (after our feasibility study) |
| Sheet material | AISI 316L |
| Sheath diameter d | Ø 6 mm Ø 3 mm |
| M.I.C. min. bending radius | 3 times the outer diameter (except the sensing tip which length is ~30 mm) |
| Insulation resistance | 100 M Ω@ 100 Vdc. |
| Response time (*) (*) test in water in accordance with IEC 751. Time taken to reach 63.2% of temperature step | less than 3.5 seconds for Ø 3 mm and less than 13 seconds for diameter Ø 6 mm |
| Weight | 14g (L=100mm e Ø3mm); 28g (L=100mm e Ø6mm) 28g (L=100mm e Ø=6mm) |
| Option | "T" distributor Female / Male / Female M12 x 5 poles Extension cables with M12 overmoulded female and male connectors Wall mounting bracket EVOPLATFORMSET configuration kit |
| | |

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ORDER CODES



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