IOTP Rev. 6 - 02/04/2025



EVOMINI IOTP

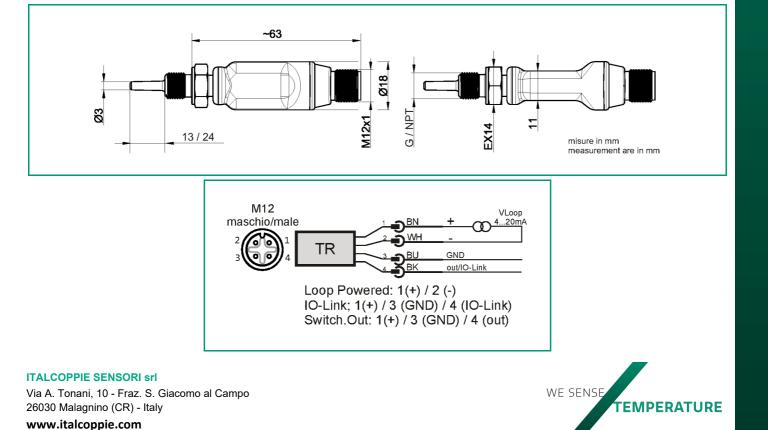
Temperature transmitter with IO-Link interface, integrated probe and process connection

Can be configured in three operating modes: IO-Link, 4-20mA loop powered and switching output with alarm thresholds (SIO). Moulded body with M12 output connector and IP67 protection degree. G1/8" threaded connection fitted as standard, suitable for temperature measurement in fluids up to 110°C.

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TECHNICAL SPECIFICATION

| Ambient temperature | -40 ÷70°C |
|--|--|
| Storage temperature | -40 ÷70°C |
| Operating humidity | 0 ÷100% |
| Operating Voltage | 18÷30 Vdc reverse polarity protection (IO-Link operating mode) 8÷32 Vdc reverse polarity protection (Loop Powered operating mode) |
| Current consumption | 0.65 W (IO-Link operating mode) 0.8 W (SIO operating mode) |
| Input/Output insulation | None |
| Sensor input signal filter (*) (*) time to reach 90% of signal | Configurable from 0.1s to 3.7s |
| Output signal type | Configurable between: 4÷20mA analogue signal; IO-Link; switching PNP or NPN output (SIO); |
| Permitted load | 727Ω @ 24 Vdc [Rload= (Vpw 8) / 0,022] (Loop Powered operating mode) |
| Sensor break or short-circuit monitoring | According to NAMUR NE43, selectable between: Upper scale (≥ 21.0 mA) Lower scale (≤ 3,6 mA) (Loop Powered operating mode) |
| Communication interface | IO-Link Vers. 1.1 (COM2 - 38,4Kbaud) Class A port M12x1 - 4 pos. A-coded |
| IO-Link Smart Sensor Profile (2nd ed.) | According to SSP type 3.1 |
| Switching output (*) (*) SIO operating mode | NO/NC programmable, PNP/NPN Overload and short circuit protection Hysteresis or window function Maximum current: 150mA Programmable output activation/deactivation delay RGB LED for output status signaling (configurable color for OFF state and ON state) |
| Display elements (*) (*) IO-Link operating mode | Green color LED (IO-Link), RGB LED with configurable color (Locator), RGB LED with configurable color (SIO) |
| Temperature influence (*) (*) deviation from 20°C | Maximum value between ±0,3°C/25°C and ±0,3% of span/25°C (Loop powered operating mode) ±0,3°C/25°C (IO-Link and SIO operating mode) |
| Long-term stability | Maximum 0.1% of span per year |
| Linear error | Negligible |
| Sensor error compensation | Offset or over two points |
| EMC | In accordance to EN 61326-1 (CE) In accordance to BS EN 61326-1 (UKCA) |
| Measurement range | -50 ÷110°C |
| Accuracy (*) (*) @25°C | Maximum value between ±0.15K and ±0.15% of span (Loop Powered operating mode) ±0.1K (IO-Link operating mode) |
| Connection body material | THERMOPLASTIC |
| Type of connector | male 4-pin connector with M12x1 metal screw lock (in accordance with IEC 61076-2-101 STANDARDS) |
| Stem length L | 24 mm 13 mm |
| Sheath diameter d | Ø 3,5 tapered conic to Ø 3 mm |
| Sheet material | AISI 316L |
| Pt100 sensor accuracy | Class A up to 300°C according to IEC 751 |
| Response time (*) (*) test in water in accordance with IEC 751. Time taken to reach 63.2% of temperature step | < 3,5 seconds |
| Process connection (*) (*) Thread STANDARDS (CYL. GAS in accordance with UNI-ISO 228) (CON. GAS in accordance with UNI-ISO 7-1) (NPT in accordance with ANSI B 1.20.1) | 1/8" GAS CIL. sec. UNI-ISO 228 1/4" GAS CIL 1/8" NPT 1/4" NPT |
| Maximum working pressure (*) (*) unless otherwise specified, it refers to room temperature | PN 100 BAR |
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TECHNICAL SPECIFICATION

| International protection marking (*) (*) According to IEC 60529 | IP67 |
|--|---|
| Programming | With any IO-Link programmation platform and the relative master. |
| Option | On request adjustment on 1 or 2 points |
| Factory default | Loop powered operating mode: (4÷20)mA output / Range 0÷100°C / Sensor break ≥21mA / Sensor short-circuit ≤3.6mA Switching output operating mode (SIO): PNP type output with hysteresis function NO, SP=80°C, RSP=70°C, no delay, output status signaling: LED color red |

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