



# STR551

Indicator - Indicatore

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User manual - Manuale installatore

### 3 Technical Data

#### 3.1 General data

Display	2.42" monochrome (yellow) OLED graphical display
Operating temperature	Temperature 0-40 °C - Humidity 35..95 uR%
Sealing	IP54 front panel (with gasket) - IP20 box and terminals
Material	Box: polycarbonate V0
Weight	Approx. 165 g

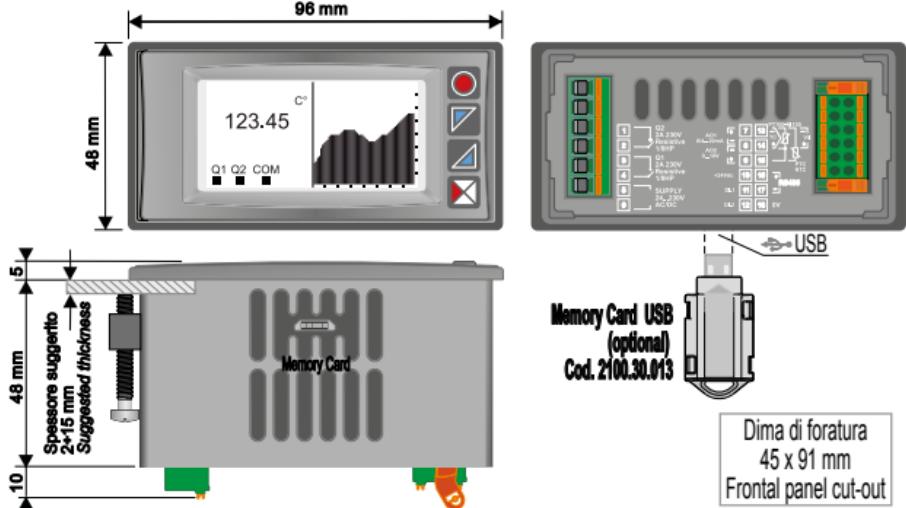
### 4 Hardware data

Power supply	Extended power supply 24..230 Vac/Vdc ±15% 50/60 Hz	Consumption: 8 VA.
Analogue input	AN1 Configurable via software. Thermocouple type K, S, R, J, T, E, N, B. Automatic compensation of cold junction from 0..50 °C. Thermoresistance: PT100, PT500, PT1000, Ni100, PTC1K, NTC10K ( $\beta$ 3435K). Input V/I (linear): 0-10 V, 0-20, 4-20 mA, 0-60 mV. Potentiometer input: 6 K $\Omega$ , 150 K $\Omega$ .	Tolerance (25 °C) +/-0.2% ±1 digit (F.s.) for thermocouple, thermoresistance and V / mA. Cold junction accuracy 0.1 °C/°C.  Impedance: 0-10 V: Ri>110 K $\Omega$ 0-20 mA: Ri<5 $\Omega$ 4-20 mA: Ri<5 $\Omega$ 0-60 mV: Ri>1 M $\Omega$
Relay outputs	2 Relays	Contacts 2 A - 250 V~. Resistive charge.
Analogue output	1 tension Linear 0..10 Volt. 1 current Configurable as output 0..20mA or 4..20mA.	All 16bit +/-0.2% (F.s.)

## 4.1 Software data

Regulation algorithms	ON/OFF with hysteresis
Alarm mode	Absolute / Threshold, Band with instantaneous/delayed/retentive action/by digital input activation, Sensor failure / Activation by serial line
Sum Function	By digital input or by keyboard it is possible to sum different process measurements over time
Totalizer Function	Visualisation of instant process value and total value since last reset
Trend visualization	Trend visualisation up to 59 samples, with selectable time basis 1 to 3600s
Analogue retransmission	Process values / Setpoints
Digital transmission	Process values / Setpoint / Parameters via RS485
Latch-on function	Semi-automatic setting of limits/ calibration values for analogue input
Data logging function	Selectable time basis 1s to 3600s, tot. memory 2.5k words
Text menus	English/Italian/Deutsch/French/Spanish

## 5 Dimensions and Installation



## 6 Electrical wirings

**!** Although this controller has been designed to resist noises in an industrial environment, please notice the following safety guidelines:

- Separate control lines from the power wires.
- Avoid the proximity of remote control switches, electromagnetic meters, powerful engines.
- Avoid the proximity of power groups, especially those with phase control.

### For permanently connected equipment:

- supply wiring must be  $\geq 18$  Awg with cables suitable for temperatures  $> 70^{\circ}\text{C}$ ;
- for requirements about any external switch or circuit-breaker see EN 61010-1 par. 6.11.3.1 and about external overcurrent protection devices see EN 61010-1 par. 9.6.2; the switch or circuit-breaker must be near the equipment.