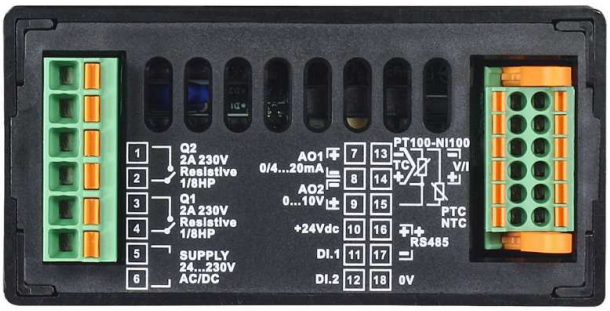
ELECTRONSYSTEM MD TECHNICAL SHEET

Revision 0 of 20 February 2019



HIGHLIGHTS

- **Visualizations**
- **Alarms**
- **Signal re-transmission**
- **Multi voltage range input**
- **Digital inputs**
- **Serial communications**

APPLICATIONS

The indicator stands out in its market segment for the bright OLED display and the innovative multilingual interface as well for RFID/NFC connectivity. The **analogue input** can be configured by parameter for a wide range of temperature sensors and process signals in mA and Volts. The **monochromatic OLED graphic display** supports graphs showing process trend with programmable sampling times and **bar graphs** with alarm thresholds typically used for level, flow and dosage visualization.
The linearization of input can be customized up to 16 points as required on tanks with irregular profile. Mathematical functions linked to process value are also available, such as Totalizer and Sum.
Connectivity is guaranteed by RS485 with Modbus RTU/Slave protocol.

For maximum flexibility of use, it is also possible to choose between horizontal or vertical installation of the same device.

Distinctive feature of the entire PI series is the innovative **multilingual interface**, with text menus allowing intuitive and quick navigation of parameters and display pages. It is possible to choose among five languages and the comprehensive menu considerably reduces the need to consult technical manual for initial set-up.
An additional programming tool is the dedicated App relying on RFID/NFC connectivity and allowing straightforward programming without wirings by Android devices *(option)

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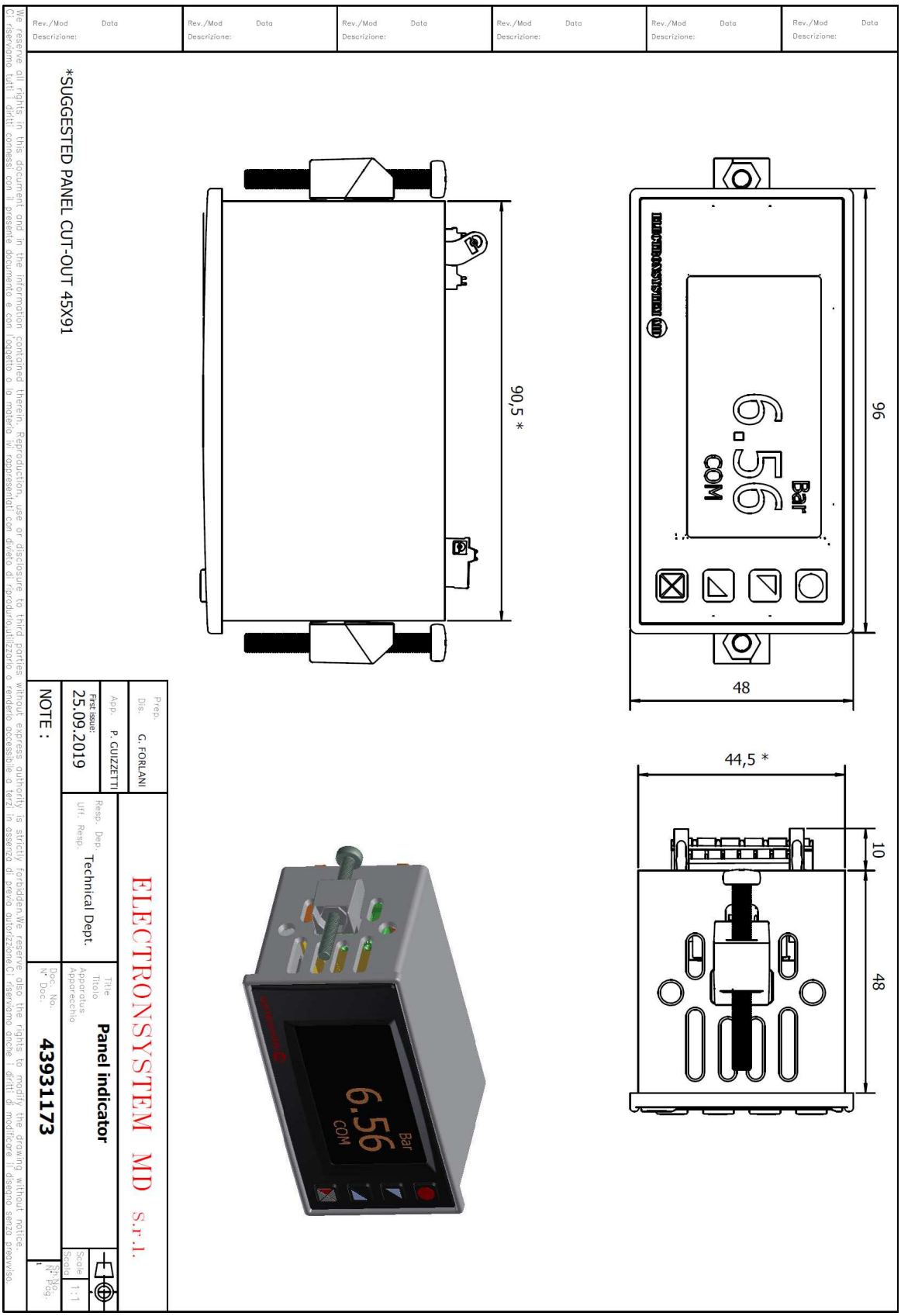


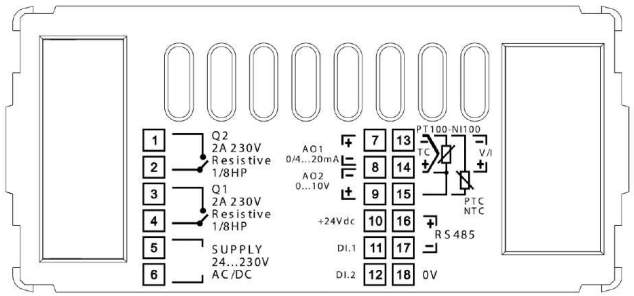
Rev./Mod	Descrizione:	Data

Main features

Box	96x48 (Front panel) x 48 mm (1/8Din)
Power supply	24...230VAC/DC ±10% 50/60 Hz (galvanic isolation 2500V)
Consumption	6 VA
Display	OLed (monochromatic yellow)
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH% (non condensing)
Material	Box: Polycarbonate V0
Weight	Approx. 165 g
Sealing	Front panel: IP54 (IP65 with gasket) - Box and Terminal blocks:IP20
Quick set-up options	Software LABSOFTVIEW and/or Memorycard
Wiring	extractable terminal blocks, spring lock

Inputs

1 Analogue	Res.16 bit, Selectable for TC type K, S, R, J, T, E, N, B (automatic compensation of the cold junction 0..50 °C, ± 0,2% F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0-10 V(54000 points), 0/4-20mA(40000 points), 0-60 mV (16000 points), Potentiometer 6 KΩ, 150 KΩ (50000 points) Customizable linear input (max 16 steps)
2 Digital	PNP inputs programmable for Run / Hold / Tare-Zero / Alarms reset/ Peaks reset/ Totalizer reset / Activate-Reset Sum / Parameters-Setpoint Lock
Sampling time	4,1 ms (Frequency from 4,12 Hz to 242 Hz)

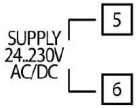


Outputs

2 Relays	2A - 250VAC (resistive charge)
2 Analogue	1 output 0...10V (60000 points) - 1 output 0/4...20mA (60000 points)
1 Auxiliary	24 VDC - 30mA for external sensors supply (loop-powered)
Serial communication	RS485 Modbus RTU - Slave (1200...115200 Baud) galvanically isolated from Power supply/Inputs/Outputs

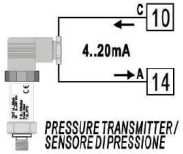
Software features

Alarms regulation	ON - OFF with hysteresis
Alarm mode	Absolute / Threshold, Band with instantaneous/delayed/retentive/by digital input activation, Sensor failure / Activation by serial line
Sum Function	Sum different process measurements over time By digital input or by keyboard
Totalizer Function	Visualisation of instant process value and total value since last reset
Trend visualization	Trend visualisation with selectable time basis 1 to 3600s
Analogue retransmission	Process values / Setpoints
Digital transmission via RS485	Process values / Setpoint / Parameters
Latch-on function	Semi-automatic setting of limits/ calibration values for analogue input
Text menus	English/Italian/German/French/Spanish
Measure unit visualization	Selection of different measuring units



Switching supply with extended range 24…230 Vac/dc ±15% 50/60Hz – 8 VA (galvanic isolated)

Pins 7-8: linear output in **mA** configurable using parameters as retransmission of process or alarm setpoints



For linear signals 0/4..20 mA **with two-wire sensor.**
Comply with polarity:
A= Sensor output
C= Sensor power supply (+24 Vdc / 35mA)

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ELECTRONSYSTEM MD
Design and products for safety problem solving
in medium and high voltage electrical installations

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