

# User Manual I/O Module 2/2

INO-222-T-01

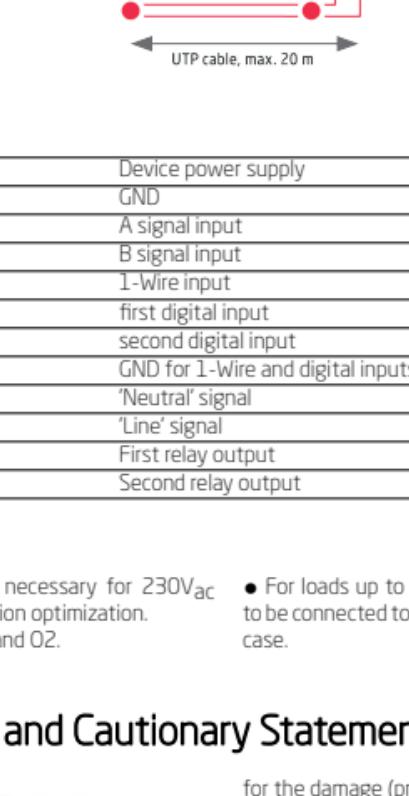
Grenton I/O module 2/2 allows to control any low power electrical device through 2 low power relay outputs and at the same time has 2 digital inputs and allows connection of up to 2 digital 1-wire temperature sensors.



## 1. Technical data

Device power supply	24V <sub>dc</sub>
Maximum power consumption	0,72W
Maximum device current	30mA (for 24V <sub>dc</sub> )
Rated load voltage	230V <sub>ac</sub> or 24V <sub>dc</sub>
Rated channel load AC1	1,5A / 230V <sub>ac</sub>
Maximal breaking capacity AC1	350VA
Relay type	NO
Maximum wire cross section for relay outputs	2,5mm <sup>2</sup>
Maximum wire cross section for digital inputs	1,5mm <sup>2</sup>
Weight	30g
Fixing	Flush mounted
Dimensions (H/W/D)	19/45/36mm
Operating temperature range	0 to +45°C

## 2. Wiring diagram



+V	Device power supply
G	GND
A	A signal input
B	B signal input
1W	1-Wire input
I1	first digital input
I2	second digital input
G	GND for 1-Wire and digital inputs
N	'Neutral' signal
L	'Line' signal
01	First relay output
02	Second relay output

- 'N' i 'L' signals are necessary for 230V<sub>ac</sub> loads for switch condition optimization.
- 'L' signal supply 01 and 02.

- For loads up to 24V<sub>dc</sub> switching signal has to be connected to 'L'. 'N' is not necessary in this case.

## 3. Warnings and Cautionary Statements



ATTENTION!

- Before proceeding with the assembly, read the installation schematics and full instructions available at [www.grenton.com](http://www.grenton.com). Failure to follow the guidelines contained in the instructions and other requirements of due care valid as a result of the nature of the equipment (device) may be dangerous to life / health, damage the device or installation to which it is connected, damage other property or violate other applicable regulations. The manufacturer of the device, Grenton Sp. z o. o. does not bear any responsibility

for the damage (property and non-property related) resulting from the assembly and / or use of the equipment not in accordance with the instructions and / or due diligence in handling the equipment (device).

- Device power supply, permissible load or other characteristic parameters have to be in accordance with the device specification, described in particular in the "Technical data" section.
- The product is not intended for children and animals.
- If you have technical questions or comments about the device operation, contact Grenton Technical Support.
- Answers to frequently asked questions can be found at: [www.support.grenton.com](http://www.support.grenton.com).



DANGER!

- Danger to life caused by electric current!
- The components of the installation (individual devices) are designed to work in a home

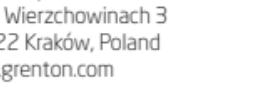
electrical installation or directly in its vicinity. Incorrect connection or use may cause a fire or electric shock.

- All work related to the installation of the device, in particular works involving interference in the electrical installation, may be performed only by a person with appropriate qualifications or licences.
- When installing the device, make sure that the power supply voltage is disconnected from the circuit in which the device is connected or near which the assembly takes place.

## 4. CE Marking

The manufacturer declares that the device is in full compliance with the requirements of EU legislation that includes the directives of a new approach appropriate for this equipment. In particular, Grenton Sp. z o. o. declares that the device fulfills the requirements on safety, specified by law, and that it conforms to the na-

tional regulations that implement the appropriate directives. The Directive on the electromagnetic compatibility (EMC - 2014/30/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).



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Warranty available at [www.grenton.com/warranty](http://www.grenton.com/warranty).

## 5. Warranty

Warranty available at [www.grenton.com/warranty](http://www.grenton.com/warranty).

## 6. Manufacturer Contact Details