

User manual I/O Module INO-288-D-01

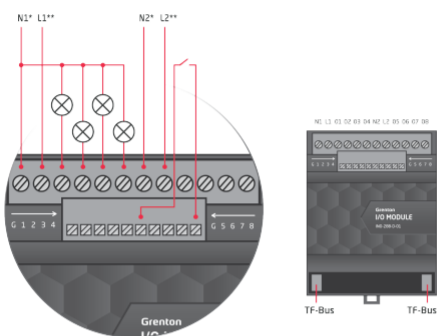
Grenton I/O Module allows you to control up to 8 outputs (max.360VA) and 8 digital inputs.



1. Technical data

Device power supply	24 V _{dc}
Maximum power consumption	1,8 W (200 mW/ch)
Maximum device current	75 mA (for 24V _{dc})
Rated load voltage	230 V _{ac} or 24 V _{dc}
Rated circuit load (4 channels) AC1:	6 A / 230 V _{ac}
Rated load current per channel:	
AC1	1,5 A / 230 V _{ac}
AC15	0,4 A / 230 V _{ac}
DC1	1,5 A / 24 V _{dc}
DC13	0,22 A / 24 V _{dc}
Maximum breaking capacity AC1	360 VA
Relay type	NO
Maximum wire cross section for outputs	2,5mm ²
Maximum wire cross section for inputs	1,5mm ²
Weight	170 g
Size [DIN]	4
Fixing	electrical box, rail DIN-3 / TH 35 / TS 35
Dimensions (H/W/D)	58/71/90 mm
Operating temperature range	0 to +45 °C

2. Wiring diagram



G	ground signal for digital inputs
1-4	digital inputs 1-4
G	ground signal for digital inputs
5-8	digital inputs 5-8
N1*	'Neutral' signal for first circuit
L1**	'Line' signal for first circuit
01	first channel in circuit 1
02	second channel in circuit 1
03	third channel in circuit 1
04	fourth channel in circuit 1
N2*	'Neutral' signal for second circuit
L2**	'Line' signal for second circuit
05	fifth channel in circuit 2
06	sixth channel in circuit 2
07	seventh channel in circuit 2
08	eighth channel in circuit 2

Relay outputs:

- Outputs are divided into two independent circuits. Each circuit has own 'N', 'L' and 4 outputs (channels).
- 'N' 'i' 'L' signals are necessary for 230 V_{ac} loads for switch condition optimization.
- For loads up to 24 V_{dc} switching signal has

to be connected to 'L'. 'N' is not necessary in this case.

- 'L' signal supply 4 channels in each circuit.
- For capacitive loads it is recommended to use one receiver for one output.

3. Warnings and cautionary statements



ATTENTION!

- Before proceeding with the assembly, read the installation schematics and full instructions available at www.grenton.com. Failure to follow the guidelines contained in the instructions and other requirements of due care 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.pl



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), the Low Voltage Directive (LVD 2014/35/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).



5. Warranty

Warranty available at: www.grenton.com/warranty

6. Manufacturer contact details

Grenton Sp. z o.o.

ul. Na Wierchowinach 3

30-222 Kraków, Polska (PL)

www.grenton.com