

# User Manual Grenton Intercom Dual-lock ICM-004-R-01

Grenton Intercom Dual-lock is a control module designed to connect two locks to the external panel and control them from the internal monitor or SIP client. The module is connected to the panel through the RS-485 interface.



## 1. Technical Data

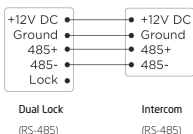
Power supply	12V <sub>dc</sub>
Power consumption	1W, in standby - 0.06W
Maximum current of connected load	7A (per channel)
Maximum load voltage	30V (DC), 250V (AC)
Degree of protection	IP30C
Dimensions (H/W/D)	57.5/114.5/34mm
Operating temperature	-40 do +65°C
Permissible humidity	20 - 80%
Weight	110g

## 2. The Input Connection Diagram

### RS-485 input:

In this case, the intercom is connected to the module via four wires: +12V, GND, 485+ and 485-.

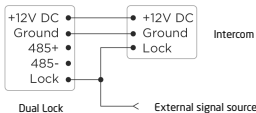
With such a connection, it is possible to control two relays independently of each other.



### Utilization of the control input "Lock":

In this case, the module is connected to the call panel with three wires: +12 V, GND and Lock. With this connection, it is possible to control only the first relay. When an external con-

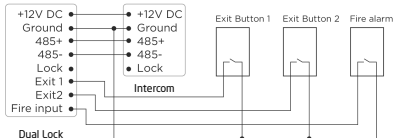
trol signal module is applied to the "Lock" input, only the first relay will act on switching. For the "Lock" input, it is necessary to use a low-voltage external signal with a DC voltage from 9 to 12V.



### The option of connecting the exit and fire alarm buttons:

The module can be connected to two exit buttons, which will respectively control the first and second relays.

Additionally, the module is equipped with a fire alarm input.

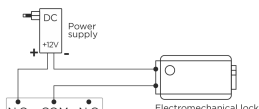


## 3. The Output Connection Diagram

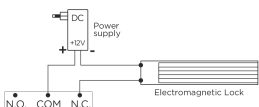
It is possible to connect both electromagnetic and electromechanical locks to the relay outputs. The two relays of the module are independent of each other, allowing for

the connection of two electromagnetic locks or two electromechanical locks (or any combination of those).

### The option of connecting the electromechanical lock:



### The option of connecting the electromagnetic lock:



## 4. 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.pl](http://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.

## 5. 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

national regulations that implement the appropriate directives: The Radio Equipment Directive (RED - 2014/53/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).



## 6. Warranty

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

## 7. Manufacturer Contact Details

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