

DEIMIC ONE Expander



DEIMIC ONE Expander module is additional and not obligatory component of the Deimic Smart Home system. Module is equipped in executive unit with relay outputs, PWM outputs and binary inputs on boards.

This configuration guarantees that **DEIMIC ONE Expander** is reliable module, which requires external power supply only (One power supply can serve two modules).

DEIMIC ONE Expander module is responsible for management of such elements as temperature, lights, sockets, LED stripes, shutters and garden watering.

Module is equipped in 39 relay outputs which can be set for:

- Lights control
- Shutters control
- Blinds control
- Recuperator control
- Gates control
- Central heating control
- Garden watering control

Cnfiguration is unlimited and depends only on number of relay outputs.

Additionally module is equipped with 4 PWM outputs that allow to change lights intensity smoothly. It also allows us to connect:

- LED lights 12/24V
- Traditional lights 230V equipped with dimmable bulbs (Deimic Dimmer 230V is required)
- Recuperator controlable using 0-10V (**DEIMIC 0-10V to PWM** module is required)
- Controllable lights 0-10V (**Deimic 0-10V to PWM** module is required)
- Inverters and other devices controlable by 0-10V (**DEIMIC 0-10V to PWM** module is required)

DEIMIC ONE Expander module is also equipped with 55 digital inputs that can be used for buttons and sensors e.g. temperature sensor, flood sensor, light sensor etc. There are also 12 special inputs (10 for temperature sensors and 2 for counters).

DEIMIC ONE Expander module is also the smallest unit with this technical specification. Each module is in the same, standard size of 28cm length, 9cm width and 5cm depth so it's not only functional but aesthetic too.

Our module is up to 4 time smaller than the others and it can control up to 150 devices in the same time.

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Specification:

Amount of digital inputs	55
Maximum amount of 0-10V inputs	up to 10
Maximum amount of 0-10V outputs	up to 4
Maximum amount of temperature sensors	up to 10
Amount of relay outputs (80A for 20ms)	39
Amount of LED with brightness control outputs (12/24V max 4A)	4
Amount of recuperators	up to 8
Amount of central heating circuits	up to 20
Amount of climaconvectors	up to 5
Amount of watering circuits	up to 10
Amount of shutters/blinds	up to 19
Amount of counter inputs	up to 12
Available communication buses	RS 485 MODBUS TCP RTU, CANbus, TCP IP, UDP

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The device should be connected to single-phase electric power according to every safety standards for electrical installations and electrical regulations. Wiring diagrams are included in this instruction.

The device should be installed by qualified electrician which have been read this manual.

The removal of the device housing means lose of the warranty and it risk of electrical shock. Before instalation ensure that there are no voltage on electrical cables. 3,5 mm PH screwdriver should be used or instalation.

Transport methods, storage and usage of the device have influence to its proper working. Instalation should not be performed in case of device damage, missing parts of the device or its deformations. In case of improper device working contact with the producer.



Utilization of waste electrical and electronic equipment is regulated by the EU directive 2002/96/EC. The Directive prohibits disposal of waste electrical and electronic equipment with other garbage under penalty of a fine.

According to the law, worn out devices must be separately collected and sorted. Customers should contact their local authorities or the seller to get information about disposal of a waste electrical and electronic equipment.