



INTIEL MODUL 2 Control Box Of Collector Boxes For Heating Systems User Manual

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INTIEL MODUL 2 Control Box Of Collector Boxes For Heating Systems



Product Information

The INTIEL Control Box is designed for use in collector boxes to control heating systems. It allows for the connection of electric actuators and control devices such as room thermostats and controllers. The Control Box is particularly suitable for controlling underfloor heating circuits.

• Technical Specifications

- Supply voltage: 230V/50Hz
- Inputs for control devices: 9
- Outputs for use of actuators for valves: 9 / 230V/50Hz
- An outlet for a circulation pump
- Boiler control output independent contact
- Availability of output status indications
- Ambient temperature: 5 to 40°C
- Relative humidity of environment: up to 80%
- Degree of protection: IP-20

• Electrical Connections

- Module 1 and Modul 2
- The Control Box consists of two modules, Modul 1 and Modul 2. The electrical connections for both modules are as follows:
- NL: Neutral Line
- PE: Protective Earth
- L: Live Wire
- I1, I2, I3: Inputs for control devices
- OUTPUT1, OUTPUT2, OUTPUT3: Outputs for valve actuators

- Module 1
- The electrical connections for Modul 1 are as follows:
- Room thermostat 230V/AC
- Room thermostat with battery
- Controller 230V/AC
- Mains power supply to Modul 2
- Protected thermostat COM NC NO

• **PUMP BOILER**

- Valve actuators 230V/AC – 50Hz (normally closed, open when power is applied to them)
- Module 2 (Operation without Modul 1)
- The electrical connections for Modul 2 (without Modul 1) are as follows:
- Room thermostat 230V/AC
- Room thermostat with battery
- Controller 230V/AC
- Mains power supply from Modul 1
- Valve actuators 230V/AC – 50Hz (normally closed, open when power is applied to them)

Product Usage Instructions

- **Step 1: Installation**
 - Follow the installation instructions provided in the user guide. Ensure that the Control Box is properly connected to the collector box and the heating system components.
- **Step 2: Electrical Connections**
 - Refer to the electrical connection diagrams for Modul 1 and Modul 2. Connect the control devices, such as room thermostats and controllers, to the appropriate inputs. Connect the valve actuators and other components to the specified outputs.
- **Step 3: Power Supply**
 - Ensure that the Control Box is connected to a suitable power supply with the specified voltage (230V/50Hz). Verify that the power supply is properly connected and functional.
- **Step 4: Programming and Configuration**
 - Refer to the user guide for instructions on programming and configuring the Control Box. Set the desired parameters and settings according to your heating system requirements.
- **Step 5: Testing and Calibration**
 - After installation and programming, test the Control Box by activating different control devices and observing the response of the heating system components.
 - Calibrate the system if necessary to ensure accurate temperature control and efficient operation.
- **FAQ**
 - **Q:** What is the warranty period for the Control Box?
 - **A:** The warranty period is 24 months from the purchase date or installation by an authorized Engineering Company, not exceeding 28 months after the production date. The warranty covers malfunctions resulting from production reasons or defective used parts.
 - **Q:** What is not covered by the warranty?
 - **A:** The warranty does not cover malfunctions due to not-qualified installation, product body interference,

improper storage, or transport.

- **Q:** How can I request repairs during the warranty period?
- **A:** Repairs can be done during the warranty period after correctly filling out the manufacturer's warranty card.

Safety instructions

- Before installation, check the integrity of the unit and its connecting wires.
- In case of damage can not be mounted to the removing of the fault.
- The installation and disassembly of the unit must be carried out by qualified personnel who have previously read the product manual.
- Mount in a dry and ventilated place away from heat sources and flammable gases or liquids.
- Make sure that the mains voltage matches the voltage on the rating plate of the unit.
- Use power consumers that match the power output of the appliance.
- In the event of malfunctioning, switch off the appliance immediately and seek authorized service for repair.
- In case of fire, use a fire extinguisher.
- For environmental protection, do not throw away electrical appliances and their packaging marked with a symbol crossed bin

Application

- The distribution bus is intended for use in collector boxes for controlling heating systems, by facilitating the connection of electric actuators and similar control devices such as room thermostats of different types, controllers, etc.
- It is particularly suitable for controlling underfloor heating circuits.

Way of working

- It is possible to control up to 9 heating circuits to the distribution bus, and two valve actuators can be connected to each circuit.
- Also, the distribution bus can control the circulation pump as well as the heating boiler.
- The separate circuits are controlled by switching on the input devices /room regulators, etc./, when contact of a room thermostat is closed, voltage 230V/AC is supplied to the corresponding actuator, which opens the valve of the corresponding heating circuit.
- In the absence of a signal from all inputs, i.e. all thermostats are turned off, the circulation pump is turned off and a signal is given to stop the boiler from Module 1. In the case of a switch-on signal, even on only one input, the circulation pump is switched on after 3 minutes and at the same time a signal is given to switch on the boiler.
- Module 1 has an input from an independent contact from an external thermostat to protect the floor circuit, when the contact is opened the circulation pump is immediately switched off. If it is not used, a bridge should be made at this entrance.
- The distribution bus consists of two Modules, Module 1 and Module 2, each module can work independently or together.
- Module 1 has 3 inputs and 3 outputs for controlling 3 heating circuits, there are outputs for controlling the

circulation pump and the boiler, as well as a supply voltage output for powering Module 2.

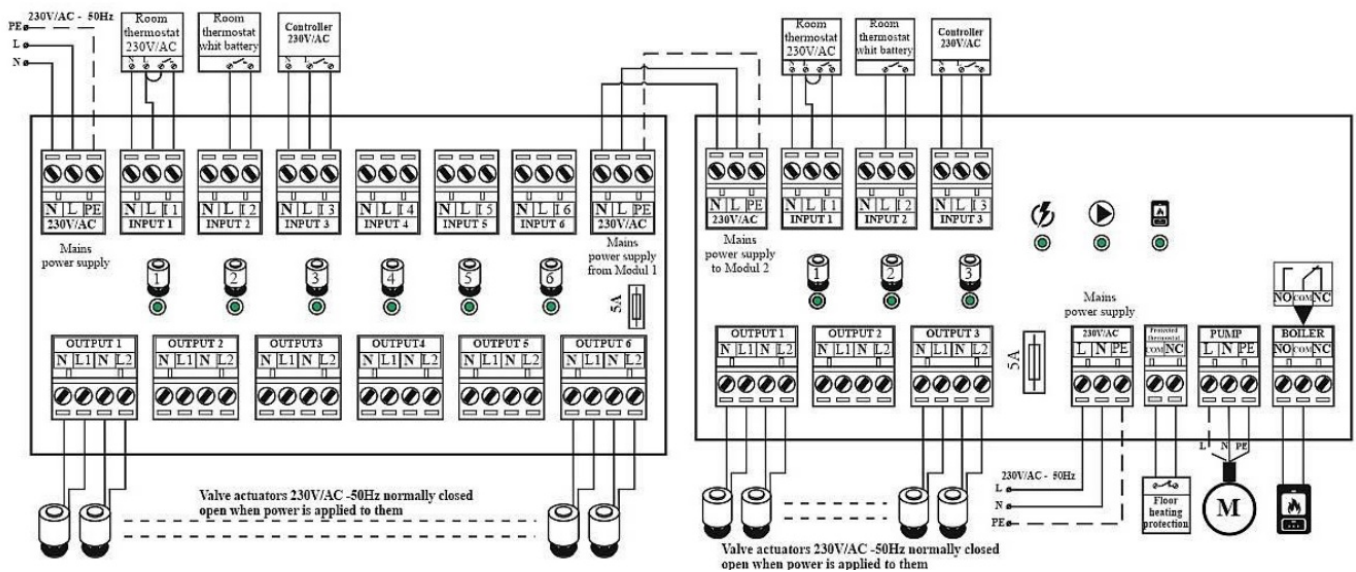
- Module 2 can control up to 6 heating circuits, it can also work independently without Module 1.

Technical Specifications

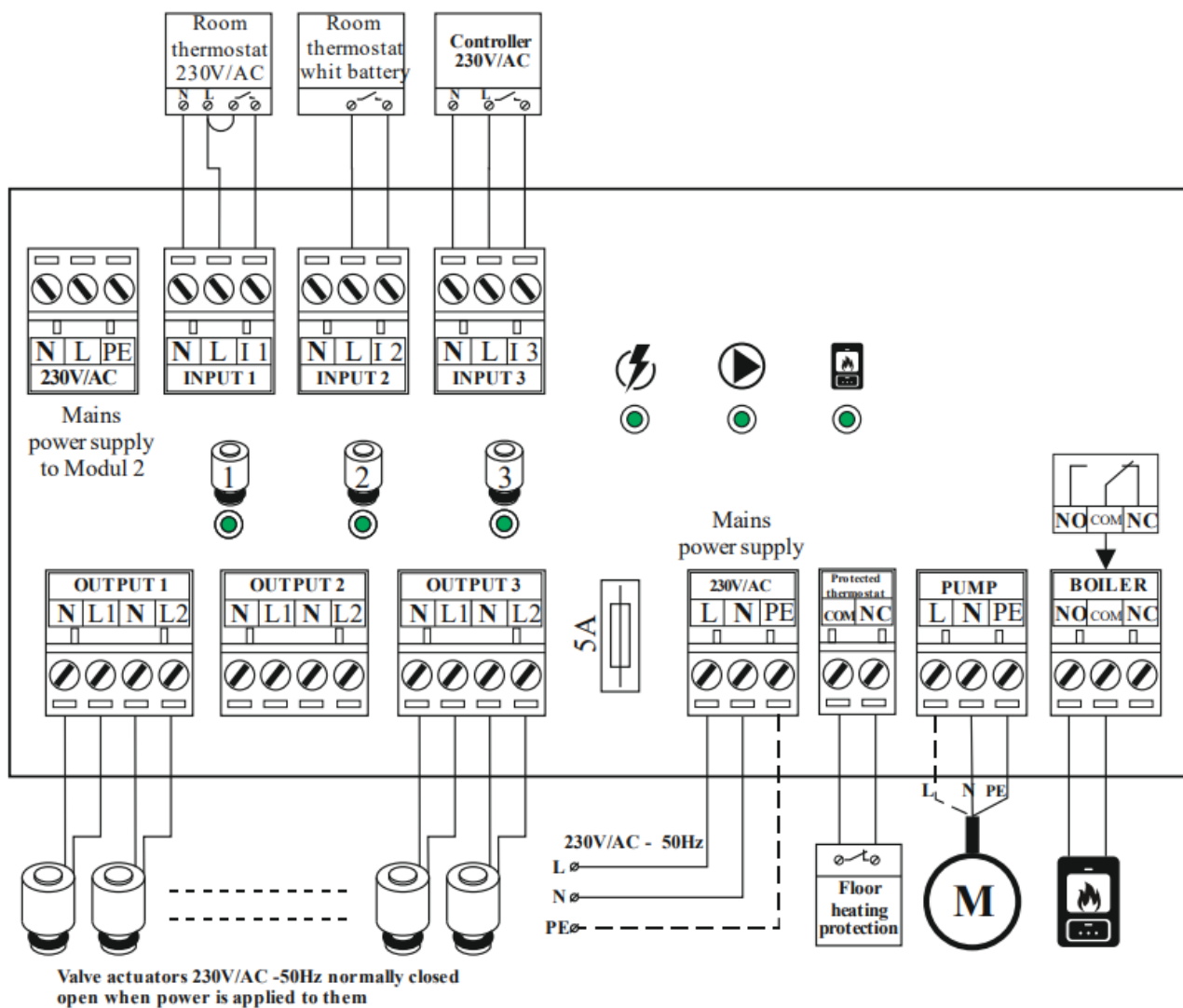
1. Supply voltage 230V/50Hz
2. Inputs for control devices 9
3. Outputs for use of actuators for valves 9 /230V/50Hz/
4. Outlet for circulation pump 230V/50Hz
5. Boiler control output independent contact NO/NC
6. Availability of outputs status indications.
7. Ambient temperature 5 to 40C
8. Relative humidity of environment up to 80%
9. Degree of protection IP-20

Electrical connections

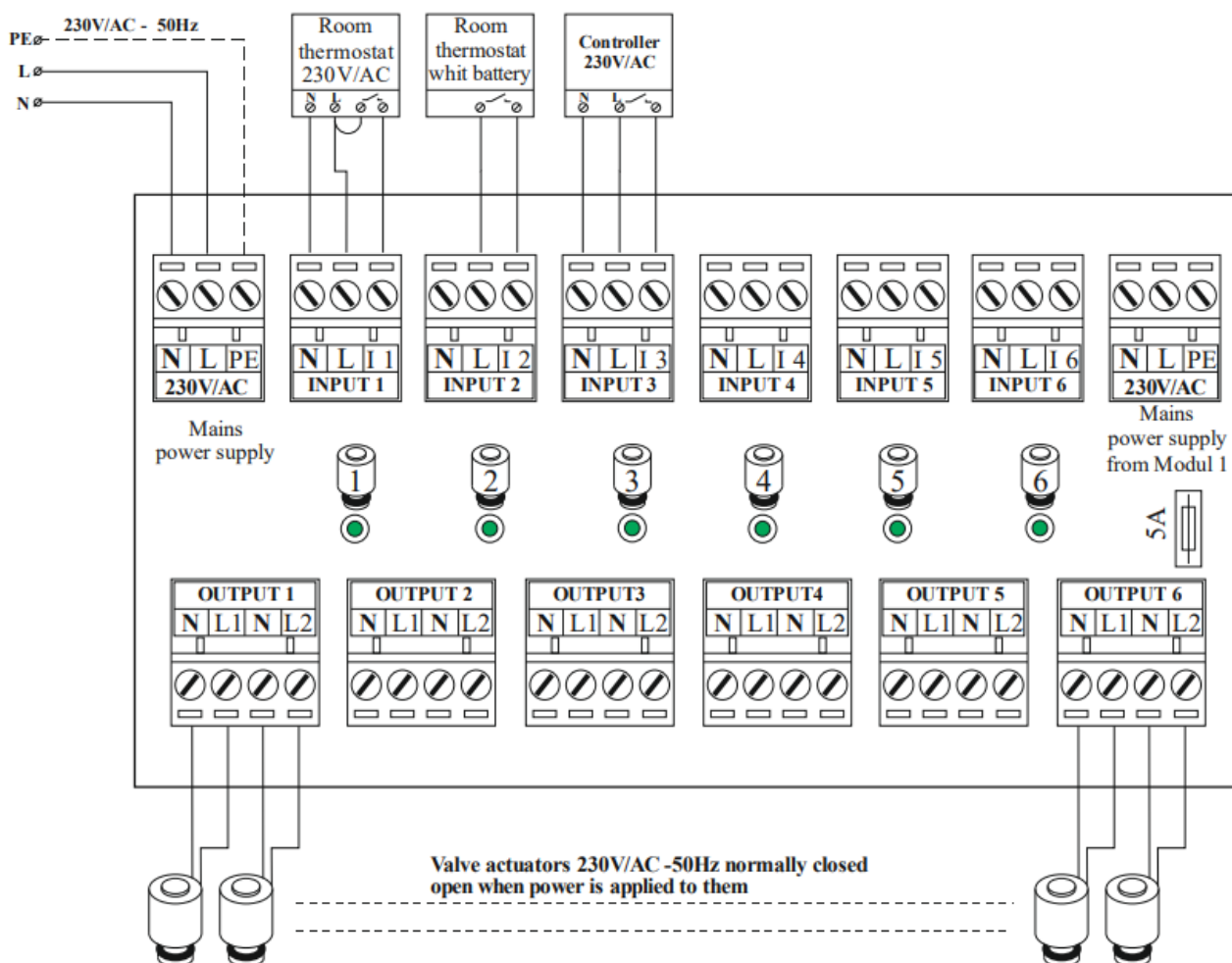
Modul 1 and Modul 2



Modul 1



Module 2 / Operation without Module 1/




Warranty conditions

- The warranty period is 24 months following the purchase date of the unit or its installation by an authorized Engineering Company, but not exceeding 28 months after the production date.
- The warranty is extended to the malfunctions that occur during the warranty period and are result of the production reasons or defective used parts.
- The warranty does not relate to malfunctions corresponding to not-qualified installation, and activities directed to the product body interference, not regular storage or transport.
- The repairs during the warranty period can be done after correct filling of the manufacturer's warranty card


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Documents / Resources

	<p>INTIEL MODUL 2 Control Box Of Collector Boxes For Heating Systems [pdf] User Manual MODUL 1, MODUL 2, MODUL 2 Control Box Of Collector Boxes For Heating Systems, MODU L 2, Control Box Of Collector Boxes For Heating Systems, Collector Boxes For Heating System s, For Heating Systems, Heating Systems, Systems</p>
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References

-  [INTIEL Controllers | Електрониката на Ваша страна!](#)
- [User Manual](#)