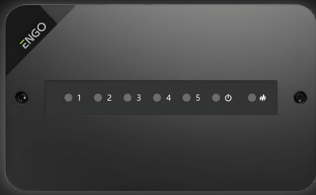


Wired Control Box for Underfloor Heating System, 5 zones, 230V



Quick Guide

Ver. 2.0
Release date: IX 2026
Soft: V1.4



ENGO
CONTROLS

Producer:
Engo Controls sp. z o.o. sp. k.
Rolna 4 St.
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www.engocontrols.com

Product compliance

This product complies with the following EU Directives: 2014/30/EU, 2014/35/EU, 2014/53/EU, 2011/65/EU.

Safety information

Use in accordance with national and EU regulations. Device is intended for indoor use only in dry conditions. Product for indoor use only. Installation must be carried out by a qualified person in accordance to national and EU regulations. Before attempting to setup and install, make sure that control box is not connected to any power source. Installation must be carried out by a qualified person. Incorrect installation may cause damage to the wiring centre. The control box should not be installed in areas where it may be exposed to water or damp conditions.

Installation

Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for non compliance with the instructions.

ATTENTION:

For the entire installation, there may be additional protection requirements, which the installer is responsible for.

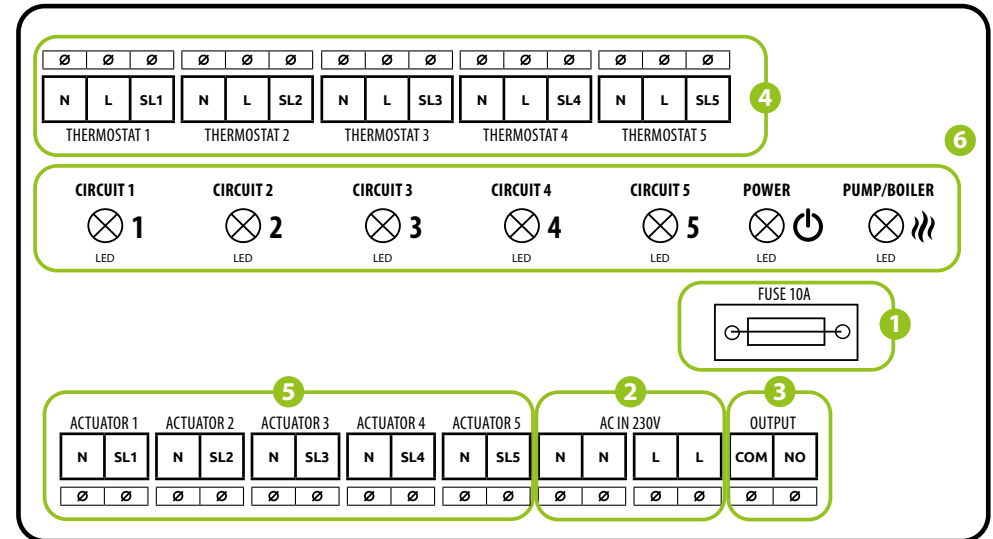
Technical data

Power supply	230 V AC 50 Hz
Max. Current	10(1) A
Output (COM/NO)	max. 16(1) A
Dimension [mm]	150 x 90 x 35

Introduction

Compact wiring centre for wired control of underfloor heating. It supports 5 heating zones and connection of NC thermo-electric actuators. Thanks to the universal COM/NO output, it can control a boiler or circulation pump with a 3-minute activation delay. The device is designed for installation on a flat surface or on a DIN rail.

Control Box description



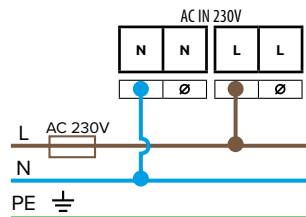
1. Cartridge fuse 5 x 20 mm T10A
2. Power supply (230V AC)
3. Volt-free output for controlling a heat source or circulation pump
4. Thermostat connection terminals.
5. Actuator output terminals (230 V AC)
6. LED indicators, respectively:
 - operation of zones 1–5
 - power supply connected to the wiring centre
 - operation of the heat source or circulation pump

1. Fuse

ATTENTION:

The fuse must be replaced only when the control box is disconnected from the 230 V AC mains supply.

Main fuse is located under the housing cover next to power supply terminals and secures the control box and the devices connected to it. Use ceramic tube slow blow 250 V ROHS fuses (5x20 mm) with nominal max current 10A. To replace fuse remove the fuse holder with a flat screwdriver and pull out the fuse.



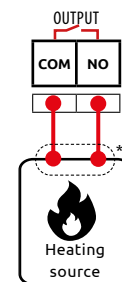
2. Power supply

The control box is designed to operate with a 230 V AC power supply.

3. Control output for a heat source or main circulation pump

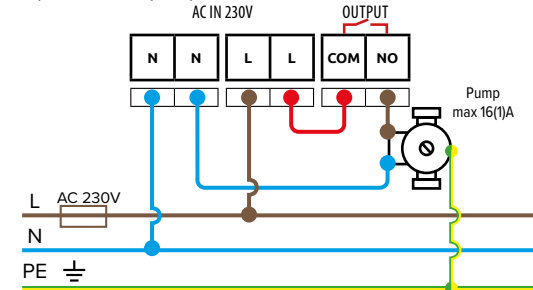
The OUTPUT volt-free relay output (COM/NO) is used to control a heat source or circulation pump. After receiving a heating demand signal from any thermostat, the COM/NO contacts close after 3 minutes, activating the boiler. The output switches off when none of the thermostats call for heat.

a) Heat source connection



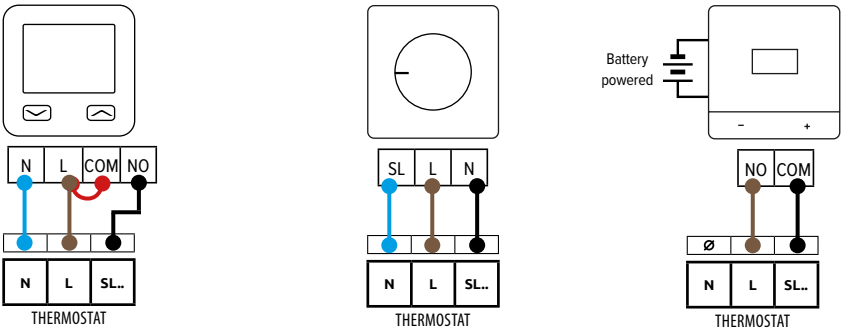
* Boiler ON/OFF contacts (according to the boiler's manual)

b) Circulation pump connection



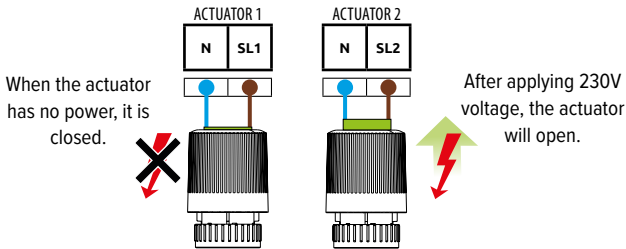
4. Thermostat connection

- a) Connection of a 230 V AC powered thermostat with COM/NO output
- b) Connection of a thermostat with 230 V AC output
- c) Connection of a battery-powered thermostat with COM/NO output



5. Actuators output connections (230V AC)

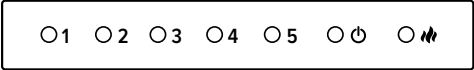
The wiring centre is compatible with 230 V AC NC (normally closed) thermo-electric actuators. Each zone can supply up to 6 actuators with a power rating of 2 W each. If more actuators are required, an additional relay must be used to reduce the load on the output.



ATTENTION:
During operation, the actuator outputs carry 230 V AC!

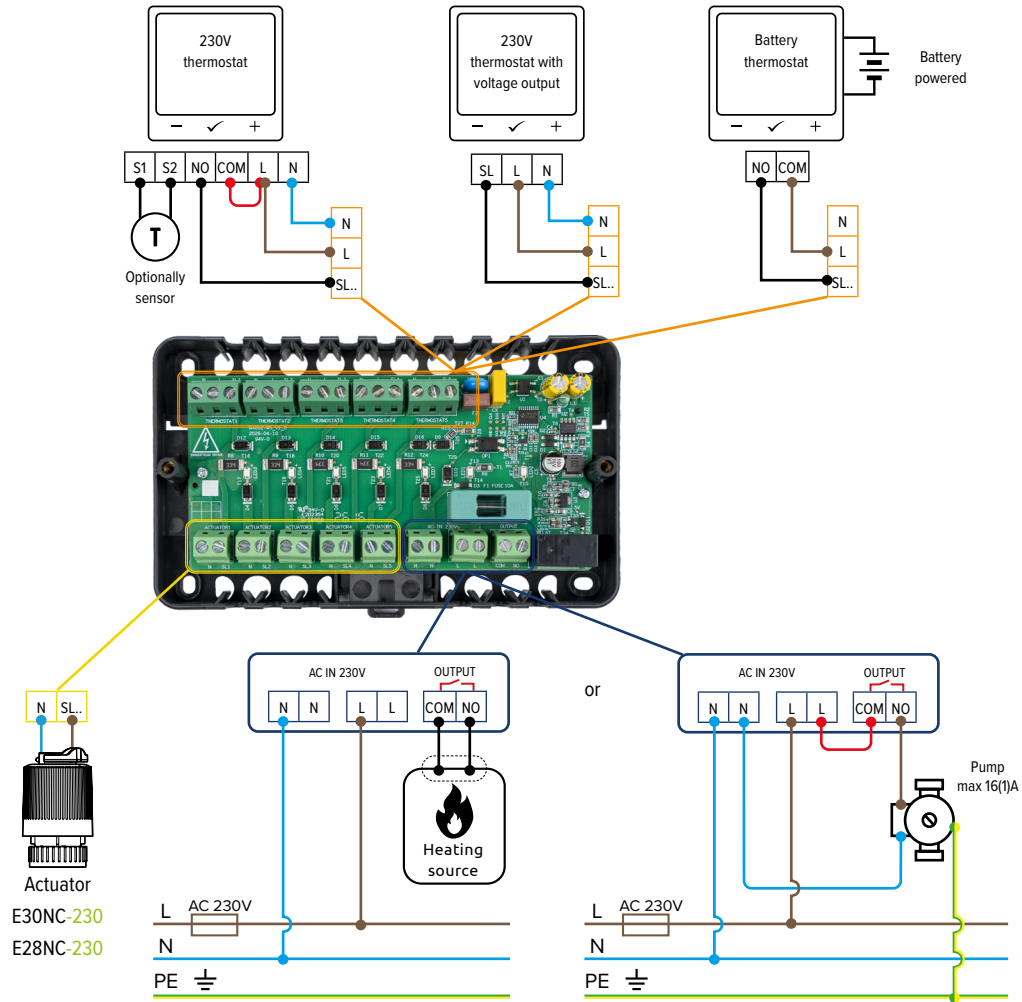
6. LED indicators description

The LED indicators show the power supply status of the wiring centre, operation of individual zones, and activation of the OUTPUT relay.



LED	Indication	Device status
Zones - 1 / 2 / 3 / 4 / 5	● green LED solid ON	Heating zone operation
POWER	● red LED solid ON	Control box connected to power supply
OUTPUT	● ● ● green LED Flashing	Output activation delay active – 3 min
	● green LED solid ON	OUTPUT active

Connection diagram



Legend:

- Fuse
- 230V AC power supply
- Ground (electricity)
- Battery powered
- Control signal 230 V AC
- External NO contact
- Pump
- Actuator
- Temperature sensor
- Heating source* - Boiler ON/OFF contacts (according to the boiler's manual)