ENGO CONTROLS — ERELAY

EREL-12ZB | Smart Relay ZigBee, 12A

Quick Guide

Technical specifications

Power supply	230V AC 50Hz
Max load	12A
Communication	ZigBee 3.0 2,4GHz
Output	COM / NO (Volt-free)
Input	S1 (Volt free)
Dimension [mm]	48 x 48 x 20

Introduction

The product is designed for intelligent control devices that need to be controlled over voltage-free signal. The voltage-free output makes also possible to control devices which require 230V voltage. The size of the module allows to place it in a flushmounted installation box. It can be used as a boiler control relay for heating system („normally open" output logic). It works according to programmed schedules or scenarios (e.g. work dependent on the actions of others system elements, such as a window/door opening sensor or temperature controller). EREL1ZB12A can be controlled remotely (via smartphone and Engo Smart/Tuya app) or locally using a bistable/monostable switch.

The relay is equipped with the ENGO binding function, to connect it wirelessly witch selected thermostats (e.g. EONE) in Online or Offline modes.

⚠ WARNING:

This product must be used together with a EGATEZB ZigBee gateway (purchased separately).

Product Compliance

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

Safety Information:

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Installation must be carried out by a qualified person in accordance with national and EU regulations.

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.

⚠ WARNING:

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

Input/Output EREL1ZB12A
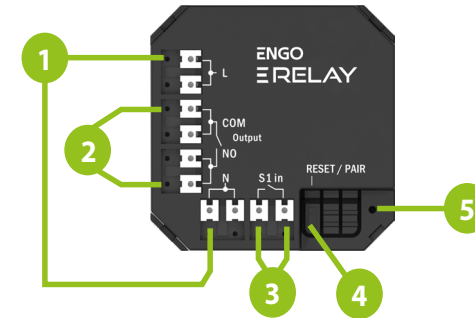
1. Power supply 230V AC
2. Volt free output
3. Volt free input
4. Function button
5. LED diode indicating the status of the module

LED diode indications

|	EXPLANATION
LED diode flashes quickly on red ●●●●●…	The device is in pairing mode with the ZigBee network (when the device does not has been previously added to the ZigBee network , or after restoring factory settings)
LED diode flashes slowly on red ● ● ●…	The device is in binding mode (when the device has been previously added to ZigBee network)
LED diode lights up green	Relay of the module has been turned ON

Button functions

|	EXPLANATION
Press 1 time	Control of the modules relay (ON/OFF)
Press quickly 5 times ● ● ●…	Enables binding process (to linkEREL1ZB12A with thermostat)
Press and hold approx. 8 seconds until the LED will start flashing red ●●●●●…	Module reset (module will be removed from the ZigBee network and automatically will go into pairing mode)

Connection description

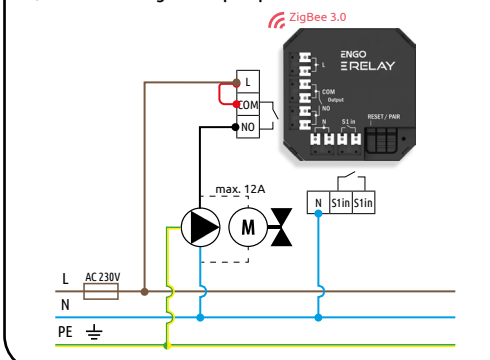### a) Connection diagram as a ZigBee network signal repeater
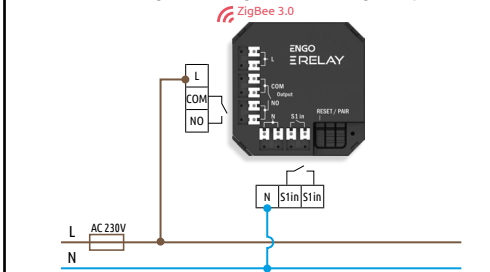
b) Connection diagram for lighting
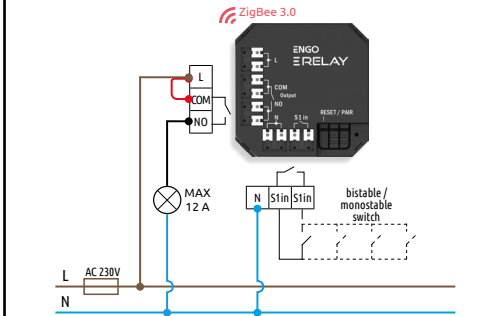
c) Connection diagram for gas boiler
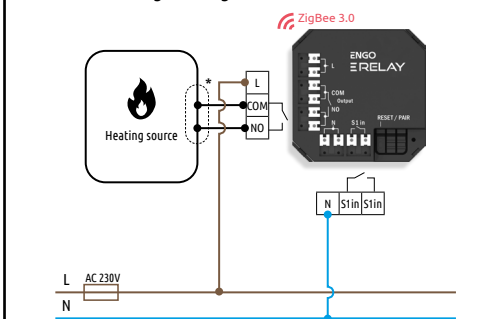
d) Connection diagram for pump / actuator

Installation thermostat in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

Download the ENGO Smart app from Google Play or Apple App Store and install it on your smartphone.

Google Play **App Store**

ENGO SMART

To register a new account, please follow the steps below:

1

2

Register
Poland
Email Address
engo@gmail.com
Get Verification Code

Click „Register"
to create new account.
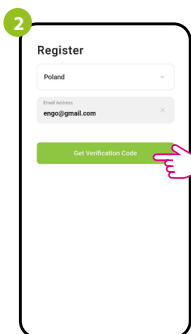
Enter your e-mail address to which the verification code will be sent.

3

Enter Verification Code
A verification code has been sent to your email engo@gmail.com Resend (57s)
Didn't get a code?

4

Set Password
Password
••••••••
Done
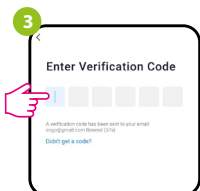
Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!!
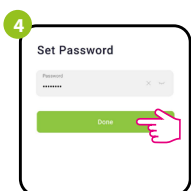
Then set the login password.

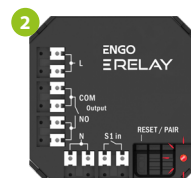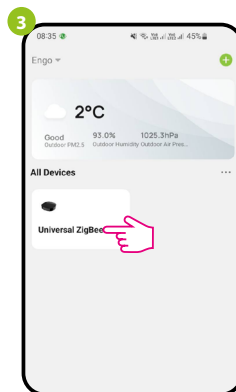After installing the application and creating an account, follow these steps:
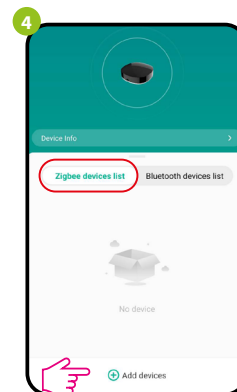
1
ENGO
GATEWAY

2
ENGO RELAY

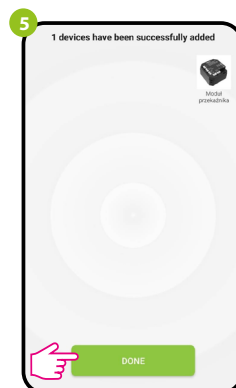Make sure ZigBee gateway has been added to the Engo Smart app.

Make sure the relay is connected to the power supply. The LED should flash quickly on red. If not, hold down the button for about 8 seconds. The relay will enter pairing mode.
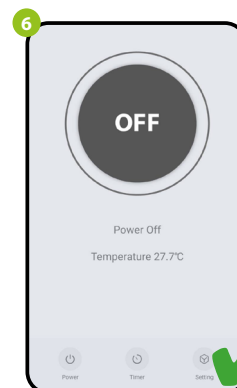
3
08:35
Engo ▾
2°C
Good 93.0% 1025.3hPa
Outdoor PM2.5 Outdoor Humidity Outdoor Air Pres...
All Devices
Universal ZigBee

4
Device Info
Zigbee devices list | Bluetooth devices list
No device
Add devices

Enter the gateway interface.

In „Zigbee devices list" go „Add devices".

5
1 devices have been successfully added
Model przekaźnika
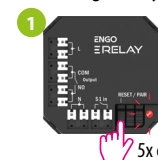DONE

6
OFF
Power Off
Temperature 27.7°C
Power   Timer   Setting

Wait until the application finds the device and click "Done".

The relay has been installed and displays the main interface.


Make sure that the relay and thermostat are in the same ZigBee network (they are added to the same gateway EGATEZB).

1
ENGO RELAY
COM Output
NO
S1 in
RESET / PAIR
5x clik

2
50% 12:00
21.5°C
5 sec
5 sec

To properly bind thermostat with the relay first click quickly the button on the device 5 times. The LED diode will start flashing slowly on red, which means the device will enable binding mode.
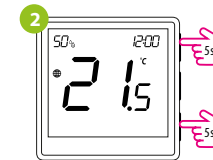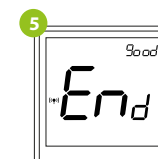
On the EONE thermostat, hold ▲ and ▼ buttons until the „bind" message appears.
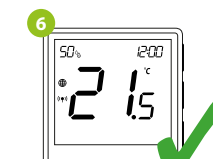
3
bind
oo5

4
bind
30o
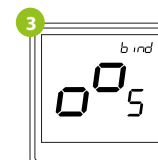
Release the keys, binding function (process of linking thermostat with control box) is active.
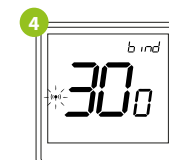
The „binding" process takes up to 300 seconds.

5
good
End

6
50% 12:00
21.5°C
✔

After successfull binding operation „End" message will be displayed. LED on the module will stop flashing.

Both devices have been successfully linked. Thermostat displays the main screen, icon "(((•)))" appeared on the screen indicating connection with the receiver.

⚠️ **ATTENTION:**
If the binding process fails, it must be repeated taking into account the distances between devices, obstacles and local radio signal interferences.

Remember:
Radio range can be increased by Engo ZigBee repeaters.

⚠️ **ATTENTION:**
When the thermostat is binded with the module, the relay will turn off after 50 minutes, if the communication between the devices is lost.

Factory reset

To reset the device, press and hold the function button for approx. 8 seconds until the LED flashes red. The relay will be removed from the ZigBee network and gateway, then goes into pairing mode. Now it's possible to add the relay again (see STEP 3 - CONNECT THE RELAY TO ZigBee network).

ENGO RELAY
COM Output
NO
S1 in
RESET / PAIR
8 sec.