ENGO CONTROLS — ERELAY

Smart Relay Wi-Fi, 16A

Wi-Fi Relay Module 16A
Model: EREL-16WIFI
Power Supply: 230VAC, 50Hz
Output: Volt-free, Max 16A
Made in China

EREL-16WIFI

Quick Guide

Works with
ENGO SMART App
GET IT ON Google Play
Available on the App Store

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www.engocontrols.com

Technical specifications

Power supply	230V AC 50Hz
Max load	16(5)A
Communication	Wi-Fi 2,4GHz
Output	COM / NO (Volt-free)
Input	Volt-free contact input or temperature sensor EFS300
Sensor temperature range	-40°C to 120°C
Dimension [mm]	46 x 46 x 24

Introduction

The Wi-Fi relay can wirelessly control selected devices in the smart home: heat source, circulation pump, fans, lighting, gates, electric heaters, etc. It has the option connect an EFS300 sensor, which allows to make smart rules and automations based on temperature readings. Allows the construction of any scenarios in the intelligent house. It is housed in an installation box, which makes it possible to mount it under a light lighting switch or under a mains socket. Also possible DIN rail mounting using the bracket provided. bracket provided. It can also work with the voice assistants Amazon Alexa and Google Home.

⚠️ **ATTENTION:**

The sensor temperature range is from -40°C to 120°C.

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.

⚠️ **ATTENTION:**

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

Input/Output

1. Power supply 230V AC
2. Volt free output
3. Volt free input or input for connecting the EFS300 temperature sensor
4. Function button
5. LED diode indicating the status of the module.

LED diode indications

	EXPLANATION
LED diode flashes on red ● ● ●...	The device is in pairing mode with the application (when the device does not has been previously added to the app, or after restoring factory settings)
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 and hold approx. 8 seconds until the LED will start flashing red ● ● ●...	Module reset (module will be removed from the application and automatically will go into pairing mode)

Connection description

b) Connection diagram for pump/actuator
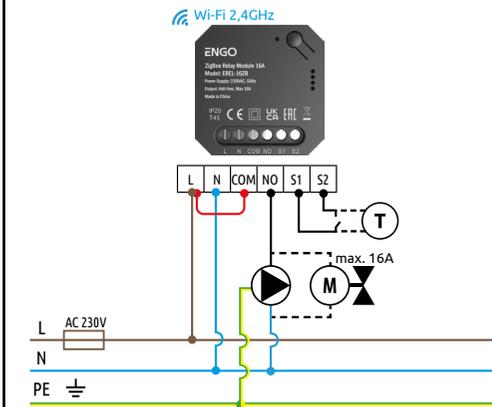
b) Connection diagram for lighting
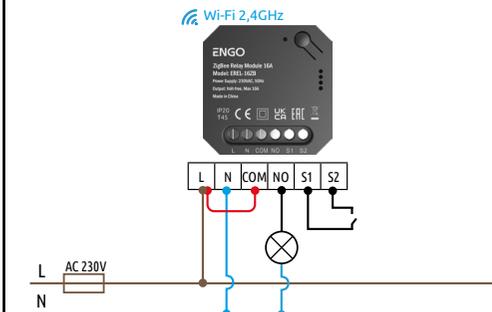
c) Connection diagram for temperature sensor
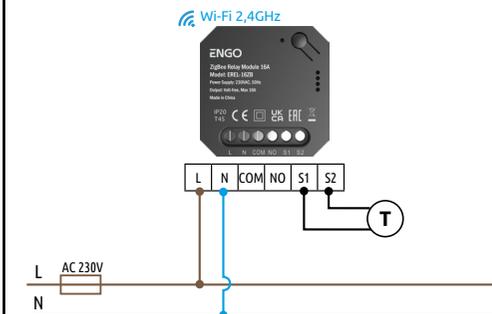
Legend:

L, N	230V AC power supply	▶	Pump
PE ⏚	Ground (electricity)	T	Temperature sensor
⎓	Fuse	⊗	Light (bulb)
COM, NO	Voltage-free output	M	Valve actuator
S1 /S2	Voltage-free input or input for connecting the EFS300 temperature sensor		External NO contact

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.

STEP 1 - DOWNLOAD ENGO SMART APP

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

ENGO SMART App

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Google Play

App Store

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STEP 2 - REGISTER THE NEW ACCOUNT

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

1
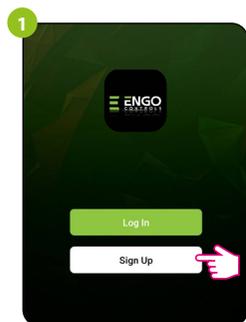
Click „Register"
to create new account.

2

Register

Poland

Email Address
engo@gmail.com

Get Verification Code
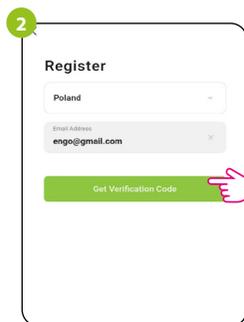
Log In
Sign Up

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?
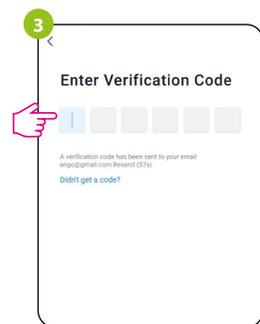
Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!!

4

Set Password

Password
••••••••

Done
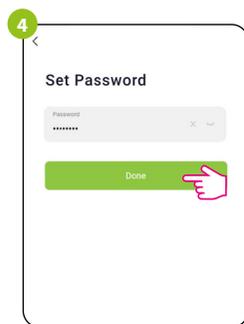
Then set the login password.

STEP 3 - CONNECT THE RELAY TO WIFI

After installing the app and creating an account:

1

On your mobile device, make sure the ENGO Smart has access to permissions (Location, Bluetooth, Nearby devices). Then turn on Bluetooth and Location. Connect to 2.4GHz Wi-Fi network to which you want to assign the device.

2

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IP20 T45
L N COM NO S1 S2

Make sure the relay is connected to the power supply. Red LED should flash quickly. If not, hold down the button for about 8 seconds. The relay will enter pairing mode.

3

My home ▾
-12°C
Poor Outdoor PM2.5   73.0% Outdoor humidity   1001hPa Outdoor air pres...
All Devices Living room Kitchen bathro ...

In the app, select: „Add Device".

4

Add Device
Searching for nearby devices. Make sure your device has entered pairing mode.
Discovering devices...
Add
Add Manually
Electrical   Socket
Lighting   Plug (BLE+Wi-Fi)   Socket (Wi-Fi)   Socket (Zigbee)
Sensors
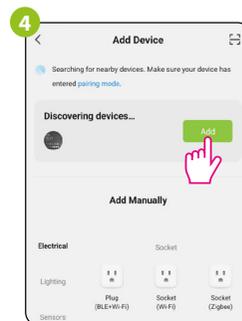
After finding the module, go „Add"

5

Enter Wi-Fi Information
Choose Wi-Fi and enter password
serwis_2.4Ghz
ql2023ql
Next

Select the Wi-Fi network in which the device will operate and enter the password of this network

6

Add Device
1 device(s) being added
WIFI Relay Module 16A
Being added
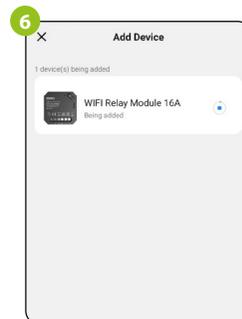
Wait for the app to configure the module with the selected Wi-Fi network

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7

Add Device
1 device(s) added successfully
WIFI Relay Module 16A
Added successfully
Done

Go „DONE".

8

WIFI Relay Module 16A
OFF
Wyłącz
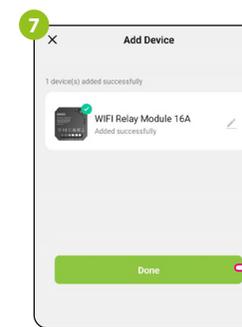
The module has been installed and displays the main interface.

External temperature sensor connection

Contacts S1/S2 can be used to connect the EFS300 temperature sensor. To activate the sensor, follow the steps below:

1

OFF
Power Off
Power   Timer   Setting

Make sure the sensor is connected. Then go to „Settings".

2

Relay Status   OFF
Switch type setting   S1/IN state (no relay control)
Relay in offline state   ON
S1/IN Input   S1/IN - CLOSED

Click „Switch type setting".

3

Switch type setting
Rocker switch - flip to change state
Rocker switch - state synchronous
Button switch
S1/IN state (no relay control)
Temperature sensor
Cancel

Select „Temperature sensor".

4

Discovering devices...
Add
Add Manually
Electrical   Socket
Lighting   Plug (BLE+Wi-Fi)   Socket (Wi-Fi)   Socket (Zigbee)
Sensors
Large Home
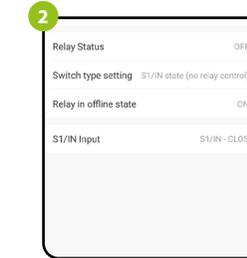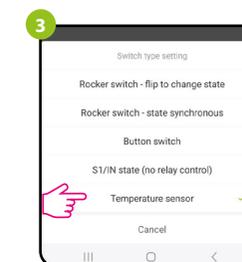
The measured temperature value appeared on the relay main screen.

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 application, then goes into pairing mode. Now it's possible to add the relay again (see STEP 3 - CONNECT THE RELAY TO WIFI).

8 sek.
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