

BLUE RELAY 4 CH

Model IDP1204RP



INDEP SRL is pleased to introduce the new bluetooth relay board: BLUE RELAY. The bluetooth board controls 4 SPDT power relays (10 Amperes @ 250Vac).

The BLUE RELAY board is very easy to manage and can be used with android smartphones or tablets. The control software comes free of charge with the device.

INTRODUCTION

Thanks to the bluetooth, now present in a large number of mobile and fixed devices, it is possible to issue commands to the 4 SPDT relays (Single Pole Double Throw), without the need for any additional software driver and without any complication.

Stop! ... sending commands via cables, keyboards or through unnecessary additional remote controls. From now, for the control of your electrical loads, you can use your PC or your smartphone or tablet always at hand. The BLUE RELAY requires no drivers and the pairing with the host is quick and easy as an ordinary headset or bluetooth mouse.



AC or DC Loads



12Vdc



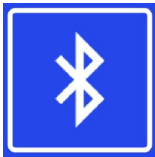
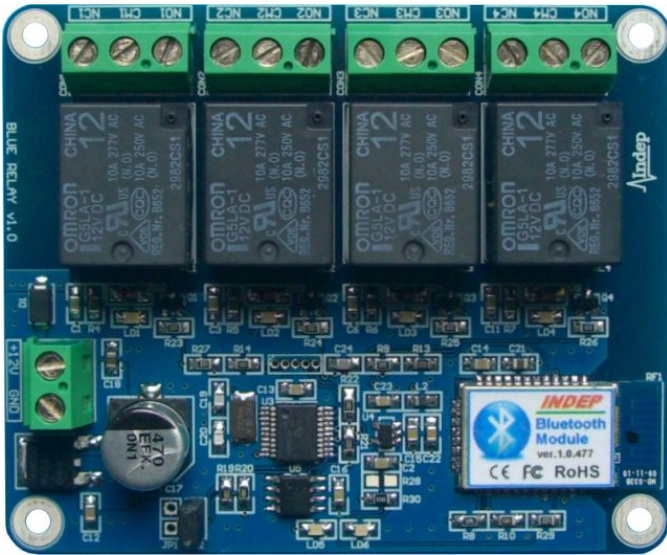
Bluetooth Link



Summary outline of the control potentialities of the BLUE RELAY.

BLUE RELAY:

MODEL: IDP-1204RP



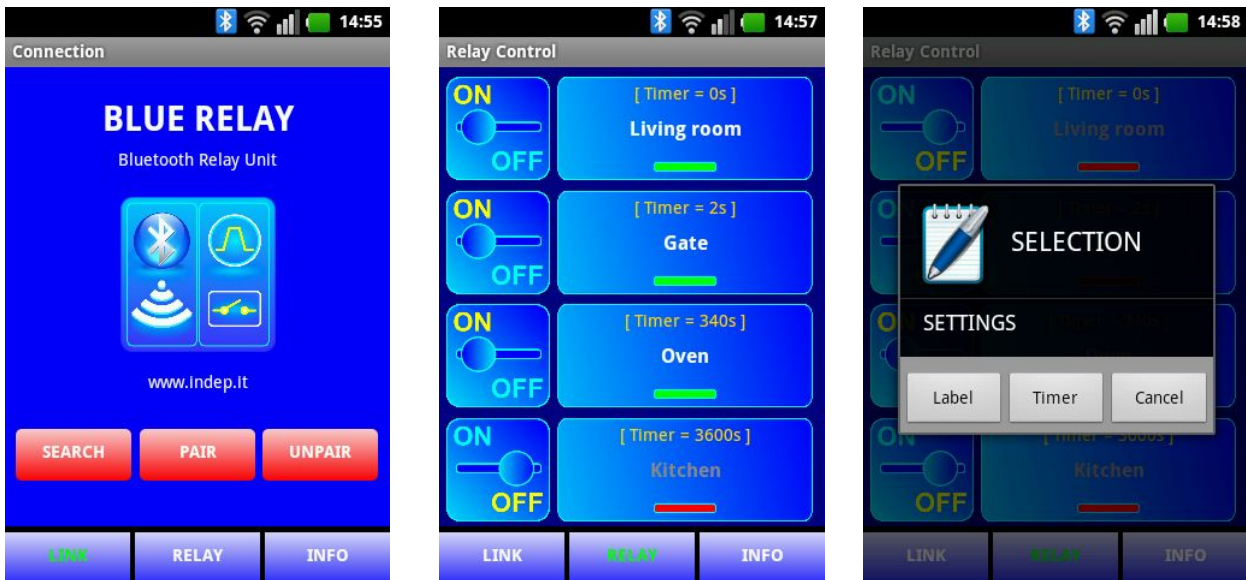
- Device with integrated bluetooth antenna
- 4 power relays (SPDT)
- Each relay can handle up to 10A @ 250Vac
- Each relay can be configured in bistable or monostable mode
- Relay timing from 1 to 6550 seconds (monostable mode)
- Power supply voltage: 12V
- Max. current consumption: 250mA
- Maintenance of relay settings without power supply (thanks to non volatile memory on board)
- Automatic reading of the state of the relays via software
- Bluetooth PIN code protection (up to 9 digits) to ensure maximum access safety
- Free software for Android (PC Windows software on request)
- Small dimensions (83.6mm x 69.2mm x 19.5mm)
- Low cost

The control unit has 4 relays, each of which can be configured to operate as a bistable or monostable. In bistable mode, the relay can be set ON or OFF, remaining in that state for an indefinite time until the arrival of a new switch command. In monostable mode the normal state of the relay is OFF, the relay can switch to ON on command for period of time comprised between 1 and 6550 seconds. In this mode, the relays operate in timed mode.

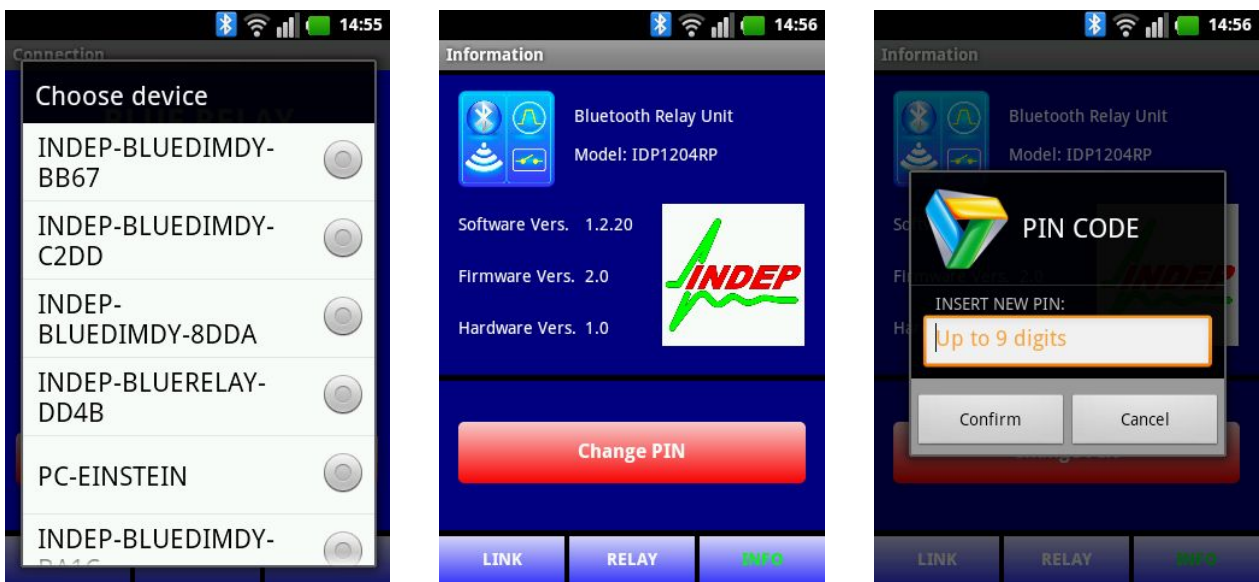
The control unit has non-volatile memory that allows the maintenance of the relay settings even in the absence of power supply. For example if the supply voltage is removed and then restored, the relays will be positioned automatically as they were set prior to the loss of power supply. This function is active for the relays configured in bistable mode. For those configured in monostable mode, the return status, after a blackout, is OFF.

ANDROID SOFTWARE:

The software for Android is free. The program is extremely simple and intuitive to use. Possibility of entering custom descriptions for each relay to quickly identify the type of load driven.



Examples of program screens (ANDROID environment), ability to customize the descriptions associated with each relay.

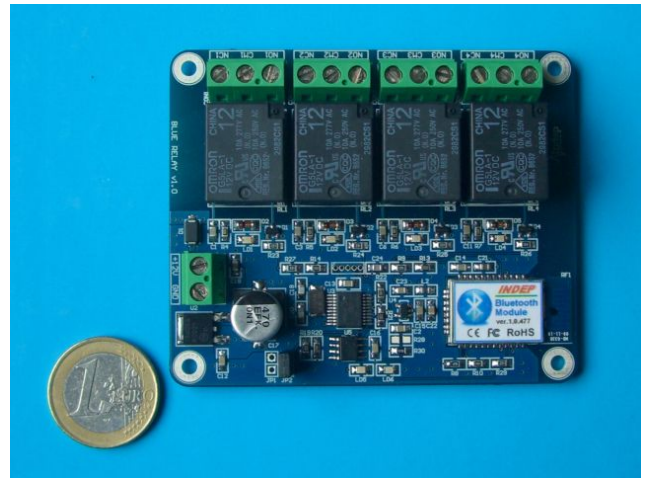
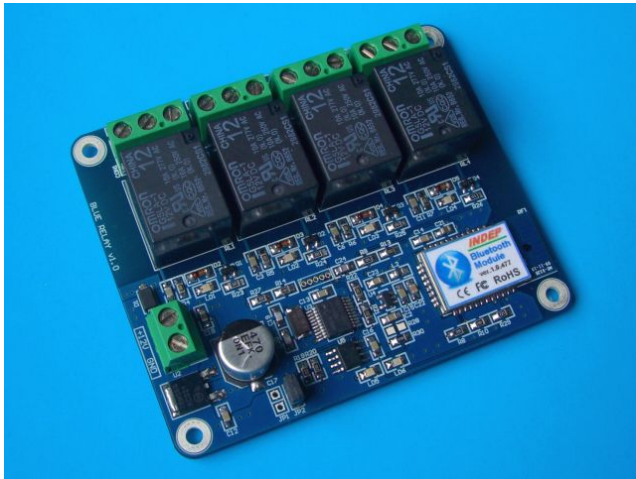


Other examples of screens: choosing a Bluetooth device from a list and the input-box to change the bluetooth access PIN.

The software also guarantees a safe access through bluetooth with the ability to enter a PIN code number with up to 9 digits. This ensures absolute safety in the control of the board, only authorized persons can gain control over the board.

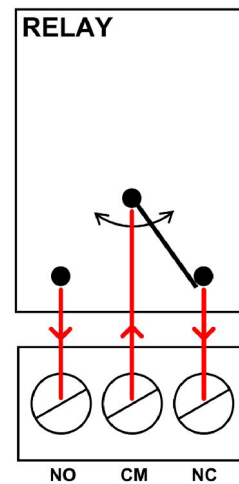
The BLUE RELAY does not need any driver and the pairing with the host is simple and straightforward as for an ordinary headset or bluetooth mouse.

The board is only 83.6mm x 69.2mm with a total height of 19.5mm. Thanks to its small size it can be easily placed in any environment.



Example of the small size of the BLUE RELAY.

The BLUE RELAY has 4 power relays capable of handling both low voltage and high voltage devices (110Vac or 220Vac). The board is then able to control the on/off switch of a wide range of loads: appliances, traditional lamps or LED lamps and much more.



Schematic of a SPDT relay contact.

The presence of SPDT relays (Single Pole Double Throw), allows flexibility in the control of loads.

In the OFF state, the connection is between the common central terminal (CM) and the normally closed terminal (NC). In the ON state the common central terminal of the relay (CM) is connected with the normally open terminal (NO).

The operation of the control unit is self contained and does not require a bluetooth connection always active. The bluetooth connection is only meant to set the state of the relays and may be discontinued at any time without stopping the operation of the device.

The relay status (position of the contact) is automatically detected by the software.

All operations are easy and intuitive and are governed by your smartphone or tablet, in full autonomy and simplicity.

The BLUE RELAY board can fulfill many functions for both professionals that hobbyists. For these reasons the use of the BLUE RELAY can fit into a large number of contexts and activities, providing innovation, novelty and practicality.

At the request of our customers, we can implement a large number of hardware or software customizations.



The BLUE RELAY board has been entirely designed and manufactured in ITALY by INDEP SRL.



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