Wireless Modbus Relay

Wireless Modbus Relay



Model number:	WR-1
Frequency:	ISM 868MHz (EU)
Dimensions:	93x45x27 mm

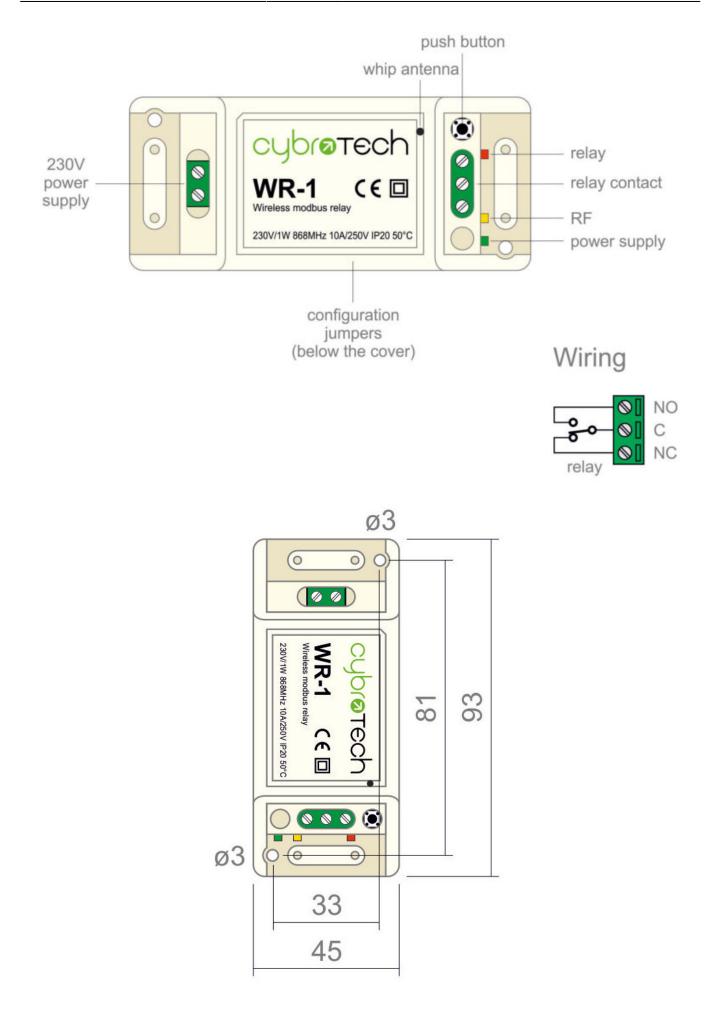
Applications

• Remote controlled relay. Act as modbus RTU slave. Optimal for long range, no hopping.

Installation and mounting

- Carefully open WR-1 module and configure serial communication with jumpers. (Default configuration is 9600bps, 8N1 with normal timeout)
- Place WR-1 module at least 10cm from other objects. Installation is not recommended inside metal cabinets.
- Connect RS485 terminals to WR-1 RS485 terminals
 - **A A**
 - **B B**
 - \circ C GND
- Connect to 230V power supply
- Configure radio pairing

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Features

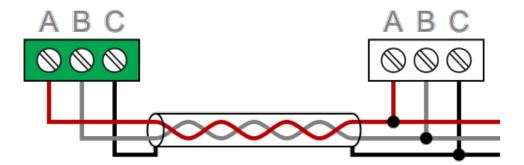
- remote controlled relay
- act as modbus RTU slave
- very long range, no hopping
- up to 8 relays per network
- protected private connection
- multiple addressable groups

Technical specification

Power supply:	230V, 50/60Hz, 1W	
Ingress protection:	IP20	
Operating temperature:	-2050°C	
Storage temperature:	-4085°C	
Relative humidity:	085% n/c	

Terminals and wiring

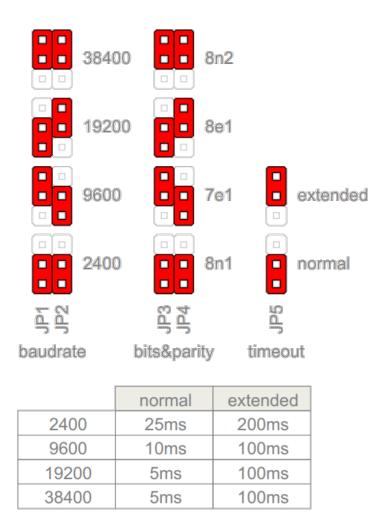
To power sensor		
		RS485 bus
To power supply		230V AC



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Serial configuration and timeout

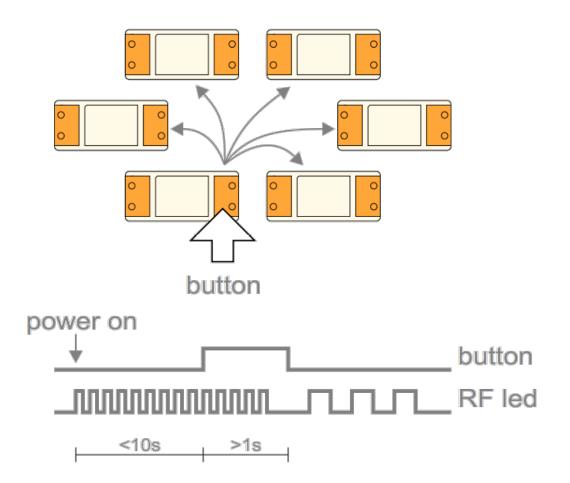
- Available baudrates 2400, 9600, 19200, 38400 bps
- Data bits and parity 8N1, 7E1, 8E1, 8N2
- Unax 64 bytes per transmition
- Integrated 240 Ohm termination resistor



Radio pairing configuration

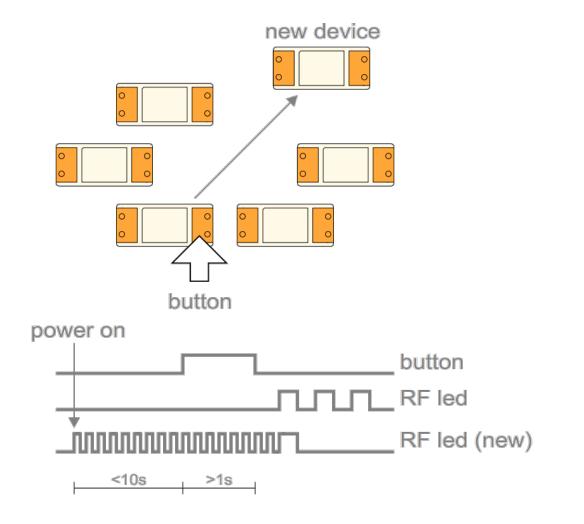
Create new secure group

```
* turn on all devices as the same time
* within 10 seconds, while RF LED is blinking, press and hold button on one
of the devices
* after a second, the new address is randomly generated and sent to all
devices. RF LED will blink 3 times to confirm the new address.
```



Add new device to the group

* turn on the device
* within 10 seconds, press and hold button on one of the existing devices
* after a second, the existing group address is sent to the new device. RF
LED will blink 3 times to confirm the address is sent.



Examples

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Connection check

• press the button shortly

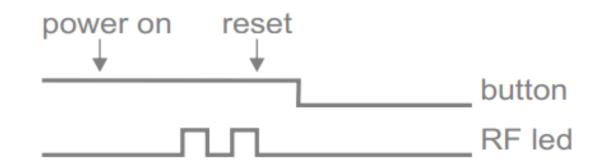
With each press of the button, the relay will switch on/off. Other devices are not affected.



Factory reset

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- Hold button and turn the device ON
- RF led will blink twice. Group address is now reset to default.
- Other devices will not be affected.



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