Wireless Modbus-to-Modbus bridge

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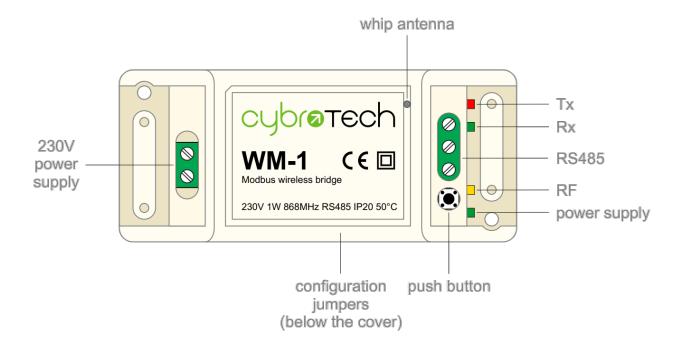
Model number:	WM-1		
Frequency:	ISM 868MHz (EU)		
Dimensions:	93x45x27 mm		

Applications

 Replacement for RS485 wiring solution with wireless. Optimal for long range Modbus RTU serial communications with half duplex configuration.

Installation and mounting

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



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Features

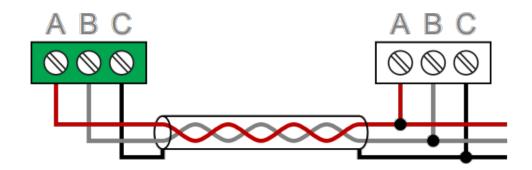
- replacement for RS485 wiring
- Modbus RTU serial protocol
- wired/wireless combinations
- very long range, no hopping
- protected private connection
- multiple slaves per device
- multiple addressable groups

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

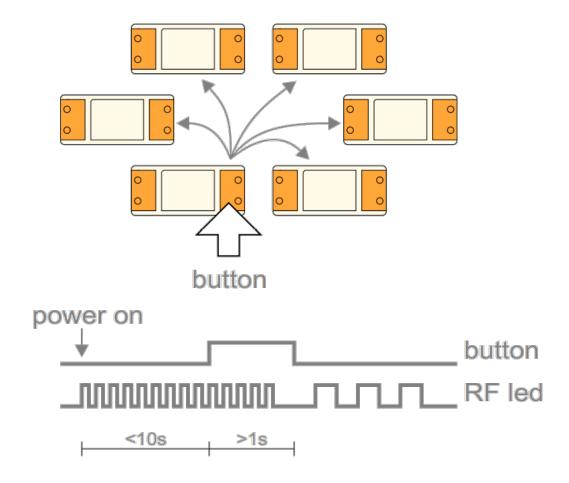
To power sensor	Α	
	В	RS485 bus
	C	
To power supply	L N	230V AC



Radio 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.

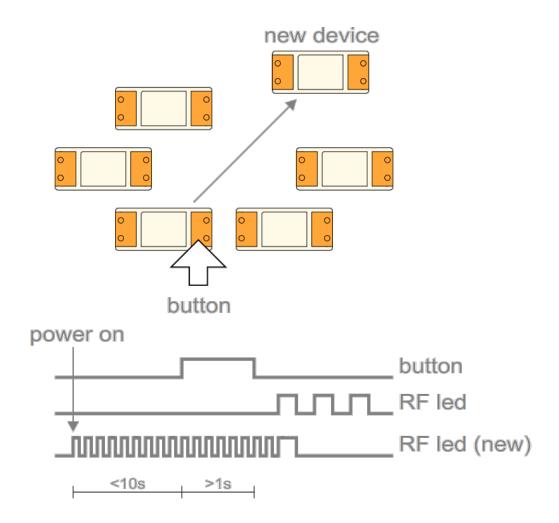


Add new device to the group

- * 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.

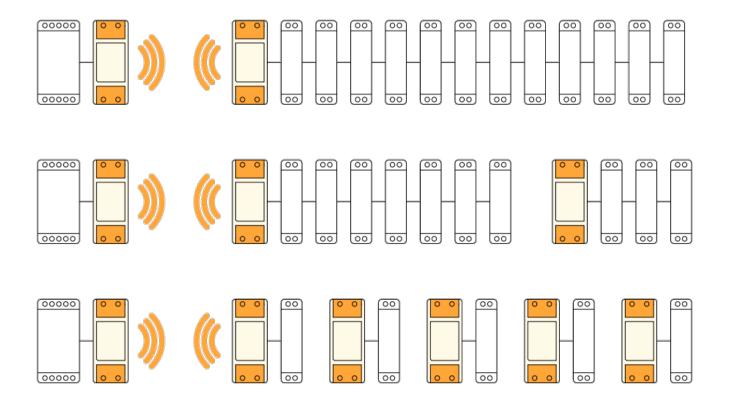
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Topology examples

- * Modbus master, connected to 12 slaves using a pair of WM-1 devices
- * Modbus master, connected to 10 slaves, organized in two groups
- * Modbus master, connected to 5 slaves, each one having local WM-1 device



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