



**DESCRIPTION**

- Device that convert signal from TCP/IP to RS-232 via Wireless.
- Can set device via normal web browser page no need to install program.
- Baud rate since 2400, 4800, 9600, 19200, 38400, 57600 and 115200 bps.
- Can operate by 2 modes are STA Mode and AP Mode.
- Can communicate by 2 Protocols are TCP Socket and Modbus Protocol.
- Alarm Relay to notice when WIFI has malfunction RSSI Low, No Network Found.
- 3 LED to show status Power, Status and Port.
- LED show the speed of WIFI (RSSI).
- Can be of Server and Client.

**OPERATION**

RM-012-WIFI is the device for being intermediary to connect with industrial device that support RS-485 or RS-232 such as CNC, PLC, Weighing Scale, Scanner that can communicate on TCP/IP network via wireless directly. The device is able to communicate via protocol Modbus from Modbus TCP to Modbus RTU use by wireless. The device is easy and fast to install. Saving cost to wiring cable and can set device via normal browser web page such as Internet explorer or phone no need to install program.

- Antenna : stanchion plug SMA type

	Power ON
	Power OFF

- Port LED : show TCP/IP connection status

	Connected
	No Connection

- Status LED : show Network status

	Connected AP
Blink	Connecting
	No Connection

- RSSI LED : show speed of WIFI

	Quantity ≤ 25%
	Quantity ≤ 50%
	Quantity ≤ 75%
	Quantity ≤ 100%

**SPECIFICATION**

Power Supply		9 - 30 VDC
Display		7 LED (Power, Link, Status, 4 RSSI)
Communication	Mode	TCP Server, TCP Client
	Protocol	TCP Socket, MODBUS
	Number of Port	1 Port (RS485)
	Baud Rate	2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
	Parity	None, Even, Odd
	Stop Bit	1, 2
Maximum Number of Slave		128
WIFI Parameters	Cetification	FCC/CE/TELEC/SRRC
	WIFI Protocol	802.11 b/g/n
	Frequency Range	2.4G-2.5G (2400M-2483.5M)
	Tx Power	802.11 b: +20 dBm
		802.11 g: +17 dBm
		802.11 n: +14 dBm
	Rx Sensitivity	802.11 b: -91 dBm(11 Mbps)
802.11 g: -75 dBm(54 Mbps)		
802.11 n: -72 dBm(MCS7)		
Antenna	RP-SMA	
Output		Relay : 1 A, 250 V, SPDT
Installation		DIN RAIL
Ambient	Temperature	10 - 50 °C
Operation	Humidity	<85%RH Mon-Condensing
Size (mm.)		23 x 241 x 110
Weight		180 g.

**OPERATION**

RM-012-WIFI is Bridge or convert signal TCP/IP from Port number that user has set to be RS-485 Port on device.

If there is no other device is using. It can open port for send data via Bus RS-485 and when user finish usage it can close port for let other device use instead.

Example 1

Computer that connect to Access Point to open TCP Port 8000 of IP 192.168.10.5 will can send signal to read Slave device.



Example 2

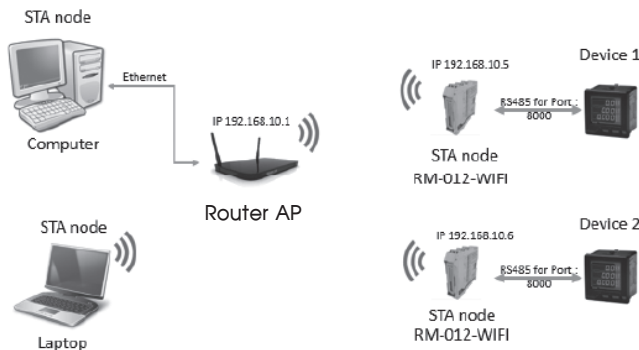
From example 1 Computer open TCP Port 8000 of IP 192.168.10.5 if Laptop needs will open TCP Port 8000 too for sending signal to read value from Slave Device have to wait Computer close TCP Port 8000 before send signal.



RM-012-WIFI can use in 2 mode

1. STA WIFI Mode

In network system has Router AP and STA Nodes several device. The communication between STA node via AP which is communication intermediary as picture.



Computer or devices and RM-012-WiFi will connect with Router AP before communicate.

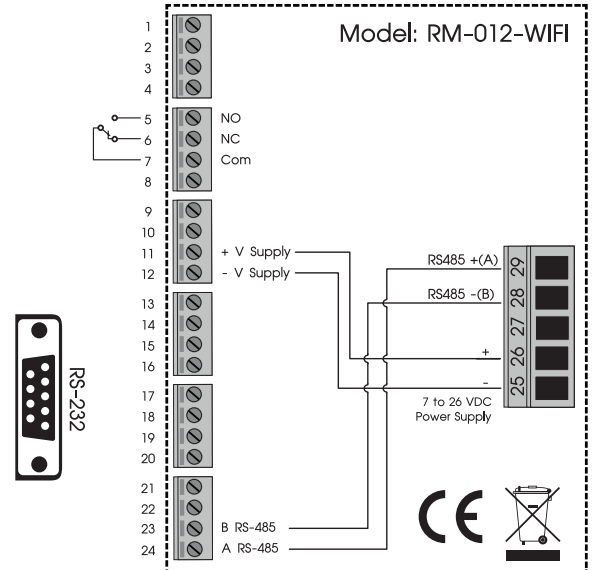
2. AP WIFI Mode

Other devices can connect to the device directly no need to setting.



RM012-WiFi will change itself to be AP made computer or other device can direct connect with RM-012-WiFi no needs to use Router AP for communicate Slave Device.

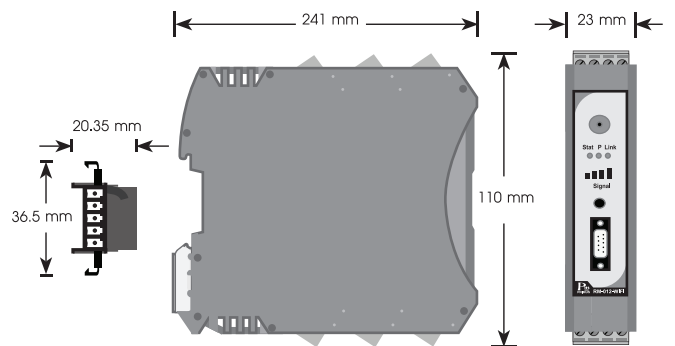
**WIRING DIAGRAM**



**WARNING**

- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.

**DIMENSION**



**ORDERING CODE**

RM-012-WIFI