



RM-012-WIFI-232

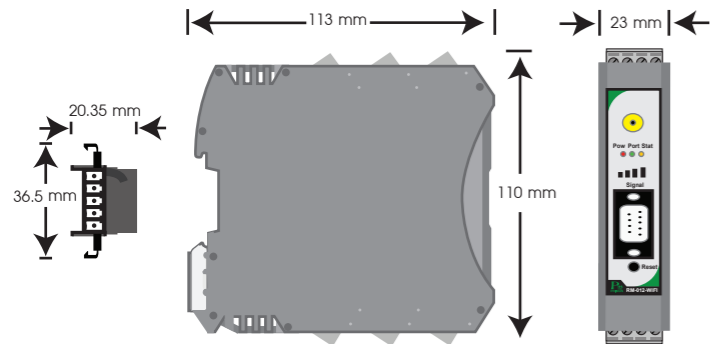


RM-012-WIFI-485

TECHNICAL SPECIFICATION

Model	RM-012-WIFI-232	RM-012-WIFI-485
Power Supply	12 - 26 VDC	
Display	7 LED (Power, Link, Status, 4 RSSI)	
Communication	Mode	TCP Server, TCP Client
	Protocol	TCP Socket, Modbus
	Number of Port	1 port (RS232) 1 port (RS485)
	Baud Rate	2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
	Parity	7, 8
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	23 x 113 x 110 mm.	
Weight	180 g.	

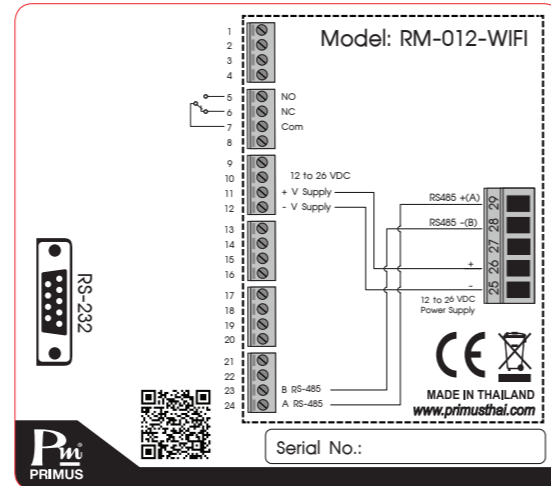
DIMENSION



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.

WIRING DIAGRAM



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 LED : show status of RM-012-WIFI

	Power ON
	Power OFF

- Port LED : show TCP/IP connection status

	Connected
	No connection

- Status LED : show Network status

	Connected AP
	Connecting
	No connection

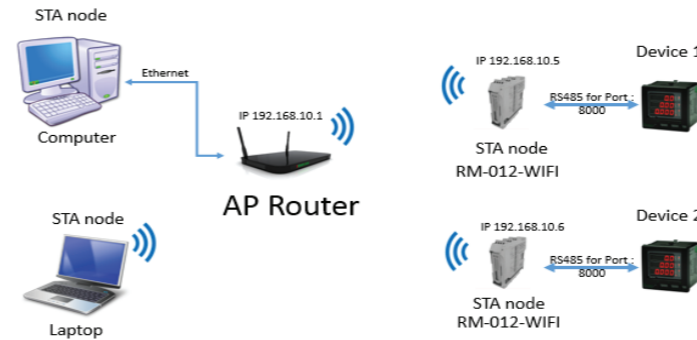
- RSSI LED : show speed of WIFI

	Quantity <= 25%
	Quantity <= 50%
	Quantity <= 75%
	Quantity <= 100%

RM-012 WiFi can use 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.

Device setting details

Name	Description	Default
MAC Address	MAC Address value is specific value for each address. It has form HH:HH:HH:HH:HH:HH can not change value.	-
Bridge Port	Port number TCP/IP can set value since 100 - 50000	Port = 9761
Protocol	Can choose communication mode are TCP Socket and Modbus	TCP Socket
Internet Protocol	Internet protocol can choose the device to be TCP Server or TCP Client	TCP Server
Remote IP	IP for TCP Client use for connect to Sever	192.168.1.100
Baud Rate	Baud Rate Seria are 2400, 4800, 9600, 19200, 38400 57600, 115200 bps	9600
Data Size	Communication data bits can set 7 or 8	8
Parity	Parity bits can set 3 value are None, Odd, Even	None
Stop Bits	can set to be 1 or 2	One
User	User Name for log in to system maximum 8 letters	user
Password	Password log in to system maximum 8 letters	1234

Network setting details

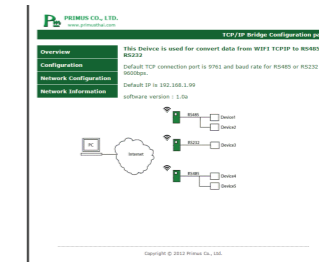
Name	Description	Default
Select Mode	choose WIFI operation 2 type are AP Mode or STA Mode	AP Mode
SSID (AP)	AP Mode SSID	RM-012-WIFI
Password (AP)	AP Mode Password	12345678
SSID (STA)	SSID for connect to AP Router	MTSSID
Password (STA)	Password for connect to AP Router	12345678
Enable DHCP	DHCP is choice in automatic receive value from other device if user enable module will be defined value such as IP Address	Enable
IP Address	RM-012-WIFI IP Address	192.168.1.99
Netmask	RM-012-WIFI Subnet Mask	255.255.255.0
Gateway	IGateway device IP Address, normally It is usually Router or Switch.	192.168.1.1

RM-012-WIFI Application Setting

can set via phone or computer in the example is setting via computer.

1. computer open Network (on bottom right corner of screen) click to SSID : RM-012-WIFI Password : 12345678 (Default SSID and Password)

2. Open Web Browser and fill Address http://192.168.4.1 you will find Homepage for setting as picture below.



If user can not access to setting page check device status.

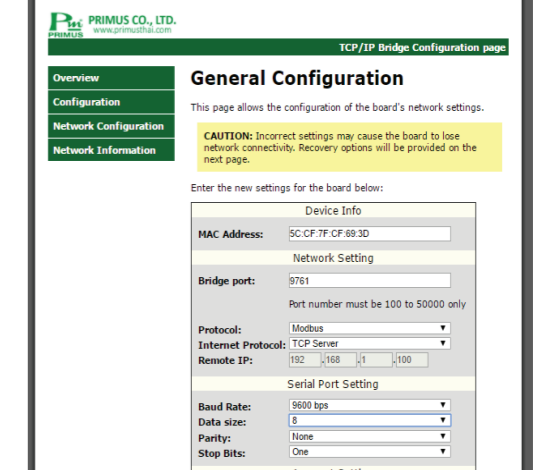
- LED Status flash is devices are connecting. User have to wait LED stay on or off.
- If user still can not access to setting page. Reset device.

3. Click Configuration menu device will ask User Name and Password for access to setting.

- For manufacturer setting value User Name is 'user' and Password is '1234' user can change in later.

- In can not log in case or forget Password user can Reset module by press Reset until LED RSSI flash.

4. If Log in is successful. You will find this page.



ORDERING CODE

RM - 012 - WIFI -	
232	RS-323
485	RS-485



บริษัท ไพรมัส จำกัด
119 ซ.สีม่วงอนุสรณ์ ๓, สหุทธิสารวิจิตรชัย แขวงดินแดง
เขตดินแดง กรุงเทพฯ 10400
โทร 0-2693-7005, 0-2277-8027 แฟกซ์ 0-2277-3565
E-mail : sales@primusthai.com