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RI-A5WIFI Module

WiFi Module for RI-F500 Series (Modbus-RTU - TCP/IP)

- Extends the capability of the RI-F500 Series Multifunction Network Analysers
- Automatically recognised by RI-F500 Series
- 802.11 b/g/n support
- TCP Server working mode
- Automatic IP assignment with DHCP
- Globally unique MAC address
- Supports standard Modbus-RTU protocol
- Reliable TCP connection

Product Description

The RI-A5WIFI is a WiFi (TCP/IP, Modbus-RTU) communication module used to extend the function of the RI-F500 Series Network Analysers.

Safety Instruction

Please read this user information carefully before using this module.

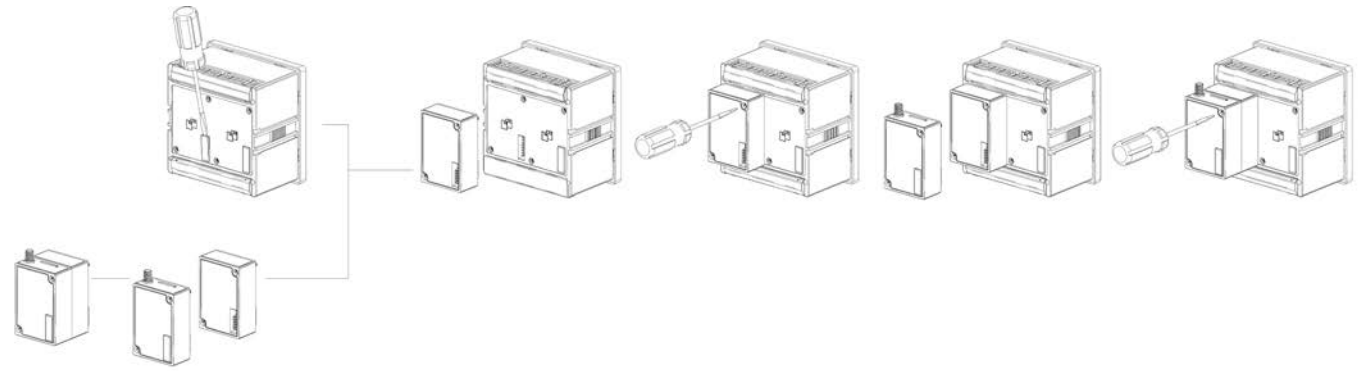
This module must be installed and serviced by professional personnel.

The installer is responsible for compliance with these instructions.

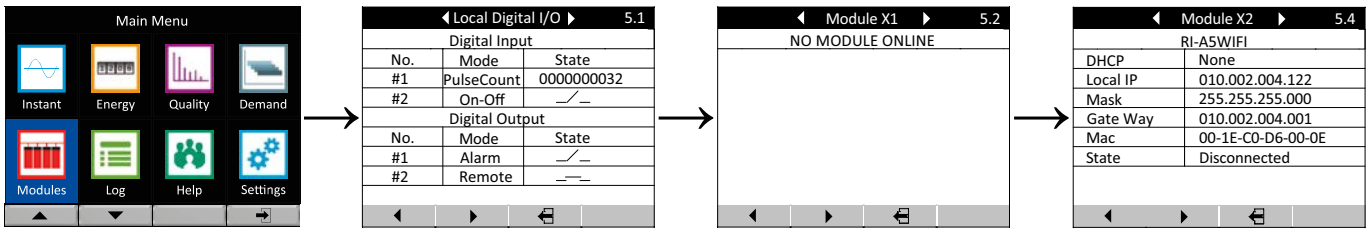
It is recommended that the user also refers to the RI-F550 user manual, Modbus-RTU Communication user manual and Modbus Protocol Implementation over TCP/IP guide.

Installation and Operation

Disconnect the power supply of RI-F500/RI-F550, and then connect the RI-A5WIFI module to slot X2 (take slot X2 as example).



Connect the RI-F500/RI-F550 to the power supply, and then enter the module interface of the RI-F500/RI-F550 to check the information of slot X2.
If the connection between the meter and the module is correct, the parameters of RI-A5WIFI will be shown as the diagram below.



Communication Model

A RI-F550 equipped with a RI-A5WIFI module is used as a server in a LAN built on a wireless router. A PC or other equipment is used a client to access the server for data exchange and control as illustrated below.

The parameters of the RI-A5WiFi module can also be configured through special software. The RI-F500 Series analysers are equipped with a RS485 interface and can be connected to a PC through a RS232(USB) / RS485 conversion device. See the user manual for more information.

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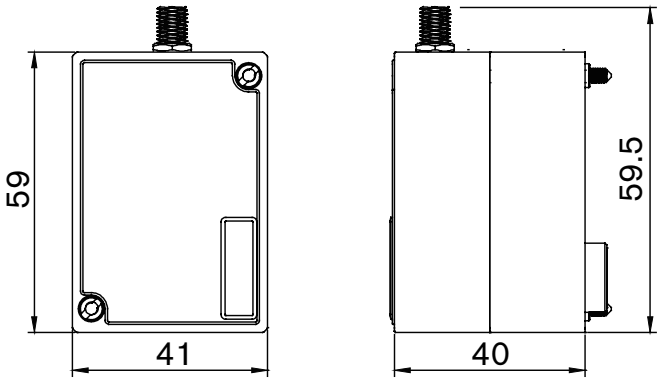
Technical Parameters

Network Interface	WiFi
Frame format	802.11 b/g/n
Transmission power	18dBm@11b 15dBm@11g 15dBm@11n
Baud rate	11Mbps@11b 54Mbps@11g 72Mbps@11n
Working mode	Server
MAC	IEEECertification, Globally unique
IP	Static setting or DHCP
Protocol	Modbus-TCP

Environmental Conditions

Operating temperature	–25°C…+85°C
Storage temperature	–40°C…+85°C
Relative humidity	0…95%, non-condensing

Dimensions



Model Selection Table

Description	Model
WiFi Modbus-RTU communication module	RI-A5WIFI

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