GoodWe provides a communication protocol on storage inverters through MODBUS RTU or TCP/IP, which is a communication solution with third party devices.

● Compatibility Map:

	MODBUS RTU		MODBUS TCP/IP	
	Compatibility	Firmware	Compatibility	Firmware
ES/EM/SBP	√	ARM 01 or higher	√	ARM 15 or higher
ET/BT/EH/BH	√	ARM 01 or higher	√	ARM 13 or higher

● Requirements of Using MODBUS TCP Protocol:

LAN Module /Wifi+Lan Module

1. Firmware of ARM chip shall be 13 or higher version for high voltage battery inverter , or the firmware of ARM chip shall be 15 or higher version for low voltage battery inveter.

2. Use LAN module or Wifi+Lan module instead of Wi-Fi module
Note: As the default communication method is by Wi-Fi, LAN modules or wifi+Lan module for MODBUS TCP communication shall be purchased separately from GoodWe and take over Wi-Fi module.

3. Please contact GoodWe sales to apply for the document

● Module select

There are 2 types of Wifi+Lan Module: 5 pin terminal and USB terminal. Different inverter use different modules. Please refer to the following table.
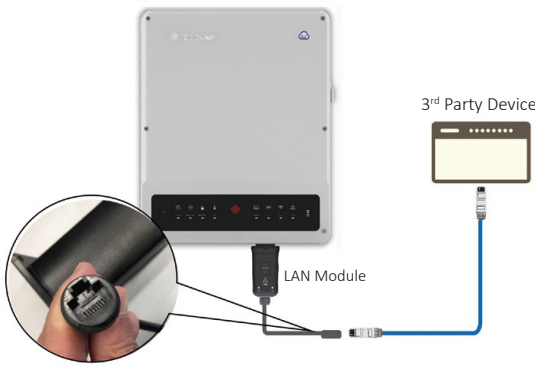
	Compatibility
ES/ET/BT/EH/BH	USB terminal module
EM/SBP	5 pin terminal module

GoodWe Modbus
TCP/IP Communication Solution
VER 02, UPDATED ON NOV 22, 2021
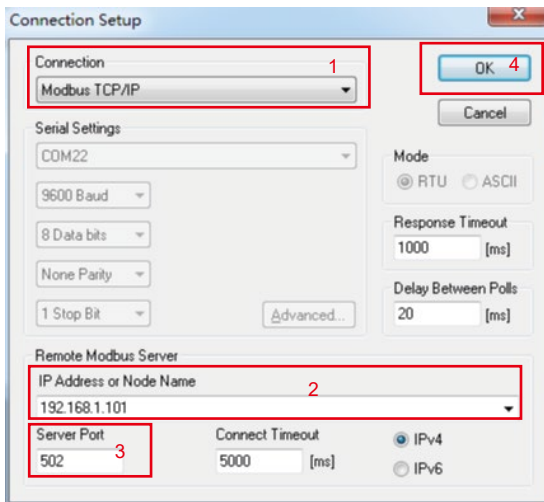
Wirings Diagrams for MODBUS TCP Communication

1. Direct connection to LAN module

3rd Party Device

LAN Module

2. Connect in the Ethernet network with inverter

Router   3rd Party Device

LAN Module
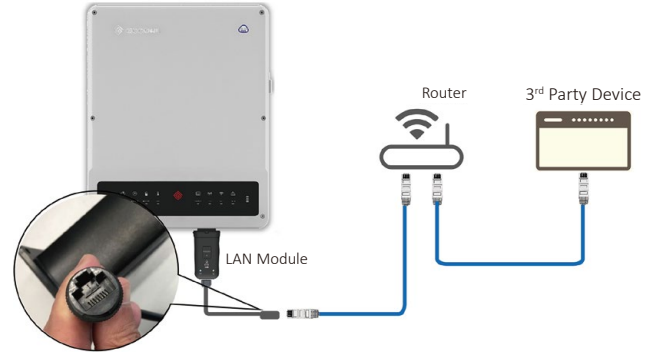
Configuration

1. Set the connection to "Modbus TCP/IP"

2. Set the IP address,make sure the IP address of the inverter and third-party device under the same segment.

3. Set the server port to "502"

4. Click "OK"

Note:

1. For network connection, please follow the *LAN Module/Wifi+Lan Module Installation* Manual of GoodWe.

2. This instruction could be updated without notice as the solution could be modified.

Welcome visiting **GoodWe Solar Community (community.goodwe.com)**

to check all technical articles, guidance videos, webinars and activities released by GoodWe and GoodWe Solar Academy.

Notice

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