



DAUDIN GFGW-RM01N Remote I-O Module System User Manual

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DAUDIN GFGW-RM01N Remote I-O Module System User Manual



1. Remote I/O Module System Configuration List

Part No.	Specification	Description
GFGW-RM01N	Modbus TCP-to-Modbus RTU/ASCII, 4 Ports	Gateway
GFMS-RM01S	Master Modbus RTU, 1 Port	Main Controller
GFDI-RM01N	Digital Input 16 Channel	Digital Input
GFDO-RM01N	Digital Output 16 Channel / 0.5A	Digital Output
GFPS-0202	Power 24V / 48W	Power Supply
GFPS-0303	Power 5V / 20W	Power Supply
0170-0101	8 pin RJ45 female connector/RS-485 Interface	Interface Module

Product Description

1. The interface module can convert the gateway's RS485 port into a RJ45
2. The main controller is in charge of the management and dynamic configuration of I/O parameters and so on.

- The power module and interface module are standard for remote I/O's and users can choose the model or brand they prefer.

Siemens S7-200 Smart Connection Setup

This section details how to connect a gateway to Siemens S7-200 Smart. For detailed information regarding , please refer to the [ID-GRID™ -Series Product Manual](#)

i-Designer Program Setup

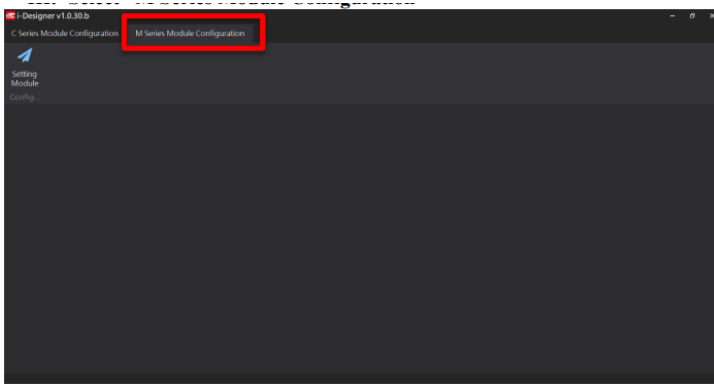
1. Make sure that the module is powered and connected to the gateway module using an Ethernet cable



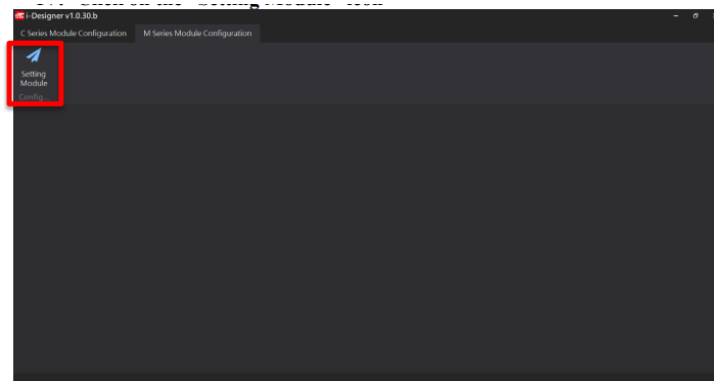
2. Click to launch the software



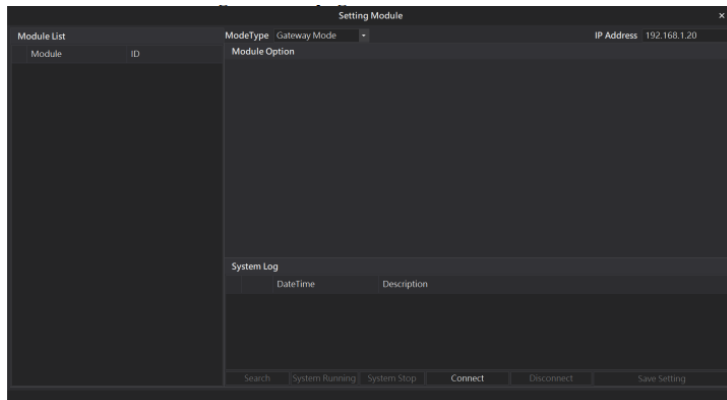
3. Select "M Series Module Configuration"



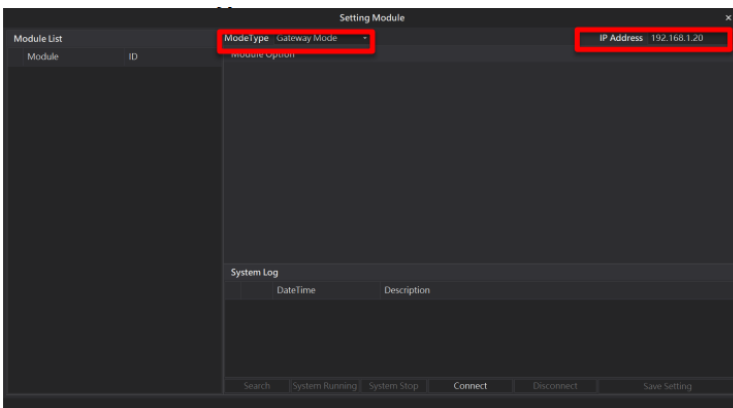
4. Click on the “Setting Module” icon



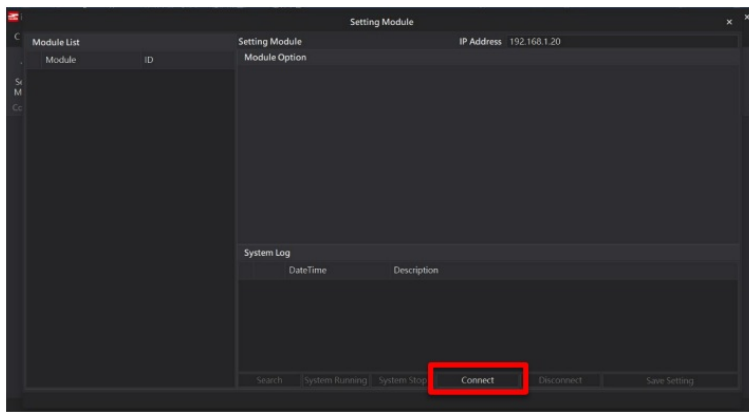
5. Enter the “Setting Module” page for M-series



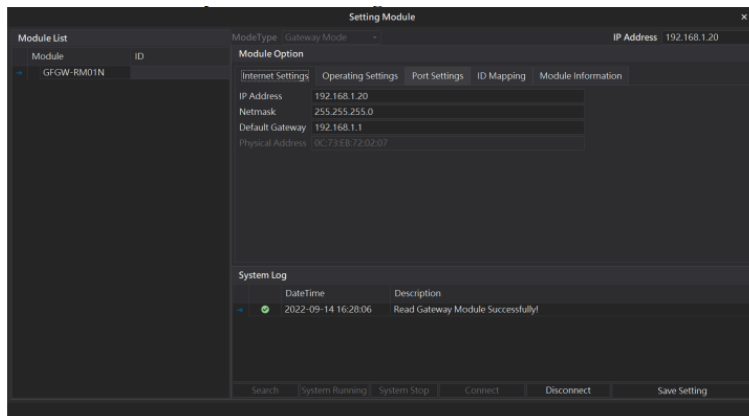
6. Select the mode type based on the connected module



7. Click on “Connect”

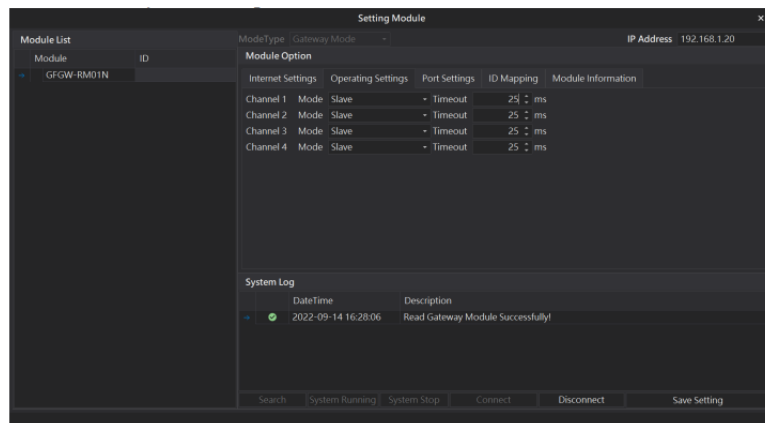


8. Gateway Module IP Settings



Note: The IP address must be in the same domain as the controller equipment

9. Gateway Module Operational Modes



Note:

Set Group 1 as Slave and set the gateway to use the first set of RS485 port to connect to the main controller (GFMS-RM01N)

Siemens S7-200 Smart Hardware Connections

This chapter explains how to use the Step7-MicroWINSMART program to connect S7-200 Smart to . The software must be V2.4 or above for Modbus TCP support. For detailed information, please refer to the S7-200 SmartSeries Manual

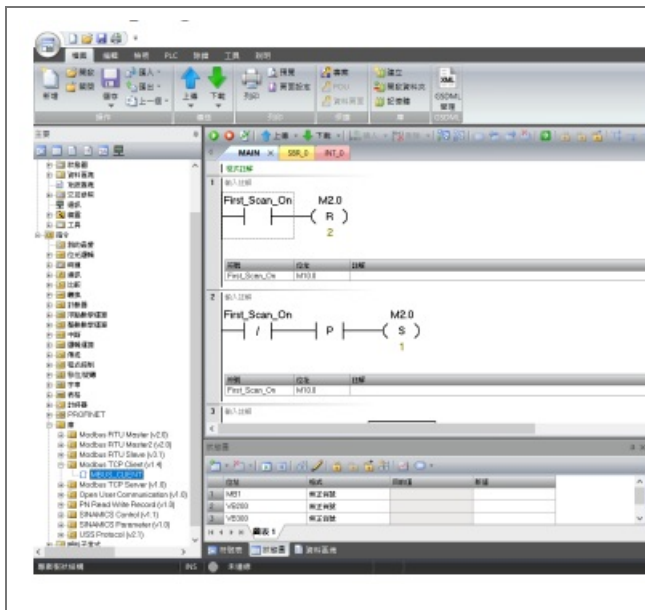
1. Modbus TCP connects with the gateway via the Ethernet cable going through the Ethernet port on the S7-200 Smart\

S7-200 Smart



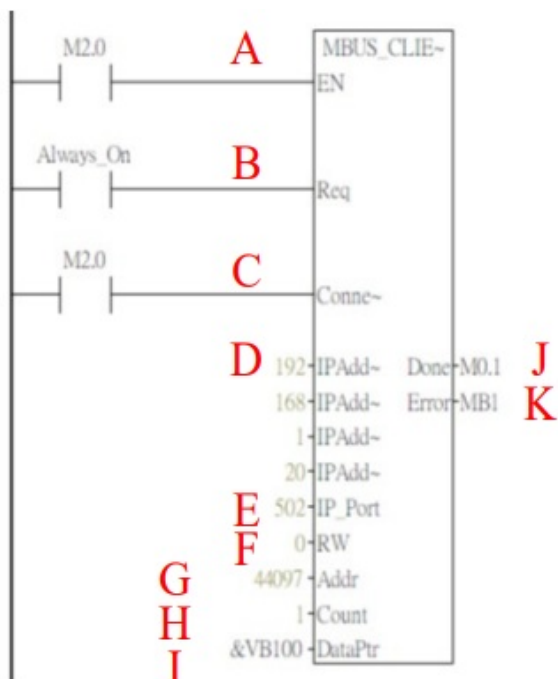
Siemens S7-200 Smart Connection Setup

1. Launch Step7-MicroWINSMART and click on “Commands” on the right side of the program



- A. Click on the “Commands” menu
- B. Click on the “Bases” menu
- C. Click on the “Modbus TCP Client” menu
- D. Click to add a new “MBUS_CLIENT”

Communication protocol settings

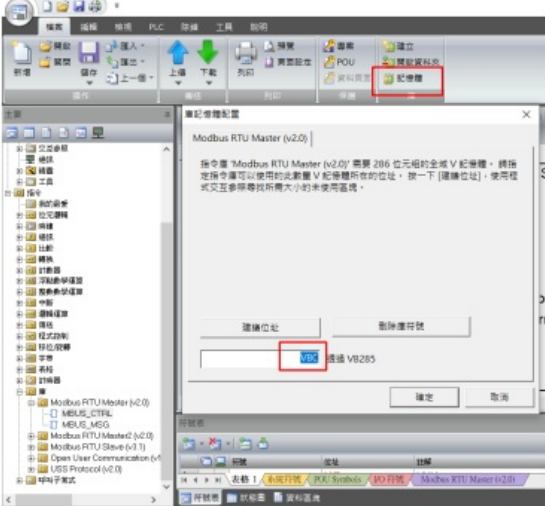


Names & Definitions

	Names	Function
A	EN	Enable bits
B	Req	When it is “1”, it means to send Modbus requests to the server
C	Connect	When it is “1”, it will attempt to connect to the assigned IP address; When it is “0”, it will disconnect and ignore any requests from the “Req” command
D	IP Add 1~4	Gateway IP address
E	IP Port	The gateway’s port number, which is 502
F	RW	Operating modes. “0” is “Read” and “1” is “Write”
G	Addr	Read/Write Modbus’ starting address
H	Count	Length of the data to be read/written
I	DataPtr	Address where the data is stored
J	Done	Completed bits

K	Error	Error Code
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Command Memory Configurations



A. Click on the “Memory” menu

B. Set up a command’s starting address and once finished, click on “Confirm”

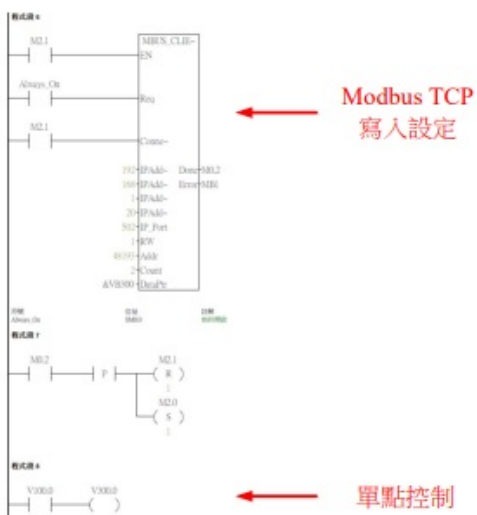
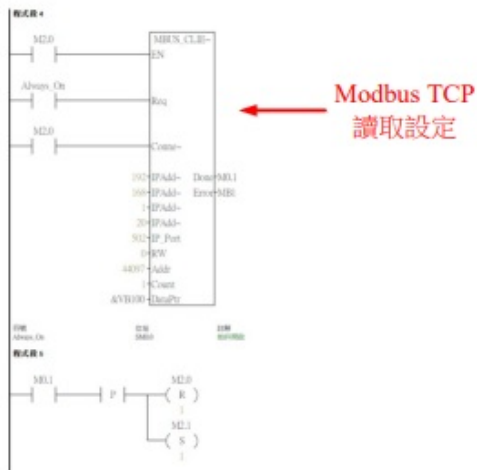
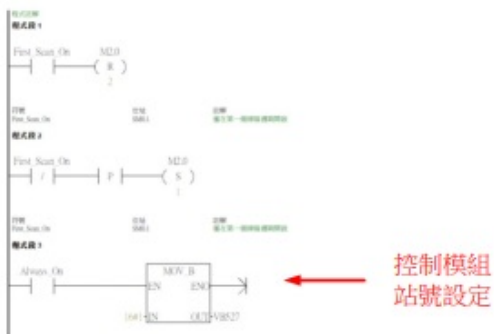
Notes:

- ※ **IO-GRID[™]**’s first GFDI-RM01N has the register address at 1000(HEX) converted to 4096(DEC)+1 and the starting address at 44097
- ※ **IO-GRID[™]**’s first GFDO-RM01N has the register address at 2000(HEX) converted to 8192(DEC)+1 and the starting address at 48193

Sample Program

Control with one GFDI-RM01N and one GFDO-RM01N

When the first point of DI has received a signal and is triggered, the first point of DO will output a signal as it is connected



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GFGW-RM01N, GFMS-RM01S, GFDI-RM01N, GFDO-RM01N, GFPS-0202, GFPS-0303, 0170-0101, GFGW-RM01N Remote I-O Module System, GFGW-RM01N, Remote I-O Module System, I-O Module System, Module System

