

DAUDIN GFMS-RM01S Remote I O Module System User Manual

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DAUDIN GFMS-RM01S Remote I O Module System



Product Information

The GFMS-RM01S Remote I/O Module System Configuration includes a master Modbus RTU with one port, a digital input with 16 channels (GFDI-RM01N), a digital output with 16 channels (GFDO-RM01N), a power supply with 24V/48W (GFPS-0202), a power supply with 5V/20W (GFPS-0303), and an interface module with an 8-pin RJ45 female connector/RS-485 interface (0170-0101). The interface module is used externally to convert FATEK PLC RS485's communication port (Modbus RTU) to a RJ45 connector. 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/Os, and users can choose the model or brand they prefer.

Product Usage Instructions

1. Remote I/O Module System Configuration List

Refer to the table of contents, and go to section 1 for the Remote I/O Module System Configuration List. This section provides a list of parts, specifications, and descriptions of the product components included in the system configuration.

2. FATEK PLC Connection Setup

Refer to section 2 for FATEK PLC Connection Setup. This chapter explains how to use the WinProLadder program to connect FATEK PLC with the Remote I/O Module System Configuration.

2.1 FATEK PLC Hardware Connection

To connect the Remote I/O Module System Configuration to FATEK PLC, follow these steps:

1. Locate the connection port on the top of the FATEK PLC machine. For example, take FBs-10MAR2-AC, which uses Port2 (RS485 pin).
2. Connect Port2 (RS485 A/B) on the top of the machine to the interface module (1/2) to convert it into an RJ45 connector, which will be connected to the main controller.

2.2 FATEK PLC Connection Setup

To set up the communication between FATEK PLC and the Remote I/O Module System Configuration using the

WinProladder program, follow these steps:

1. Launch WinProladder and set up the communication ports. This demonstration utilizes communication module CB55 RS485 with Port2 in its address. The communication parameter setting must be consistent to enable communication.
2. Edit the program by clicking on the Set up program block diagram, then from the dropdown menu, select Communication Commands, and then select M-BUS.
3. Select Function Commands:
 - Pt: The address of the port for selecting a Modbus communication module
 - SR: Starting registering for the communication program
 - WR: The starting register running the commands will take up totally of 8 registers. In this example, we select 2, R5000, and R3000.
4. Refer to Internal Related Relays for Communication Port. The form's starting address must be the same as that of the register from the SR command.
5. Set the Communication Commands.

Remote I/O Module System Configuration List

Part No.	Specification	Description
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 is used externally to convert FATEK PLC RS485's communication port (Modbus RTU) to a RJ45 connector
2. The main controller is in charge of the management and dynamic configuration of I/O parameters and so on.
3. The power module and interface module are standard for remote I/Os and users can choose the model or brand they prefer.

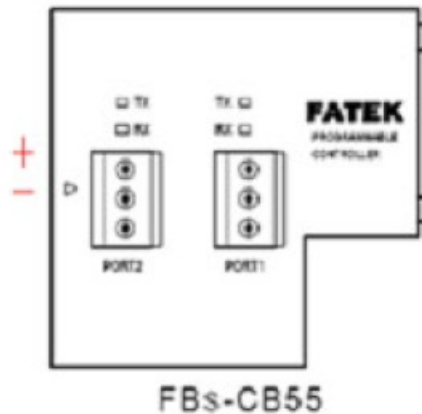
FATEK PLC Connection Setup

This chapter explains how to use the WinProLadder program to connect FATEK PLC with **IO-GRIDTM**. For detailed information, please refer to the Winproladder Manual

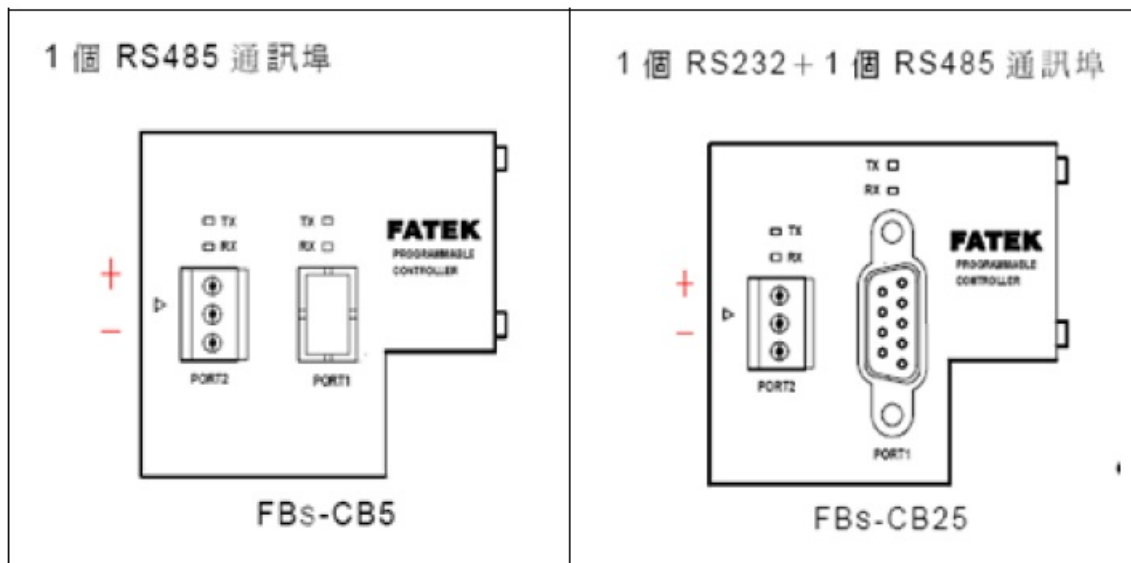
FATEK PLC Hardware Connection

1. The connection port is on the top of the machine. Take FBs-10MAR2-AC for example. It uses Port2(RS485 pin)

2 個 RS485 通訊埠



Connections for other communication modules



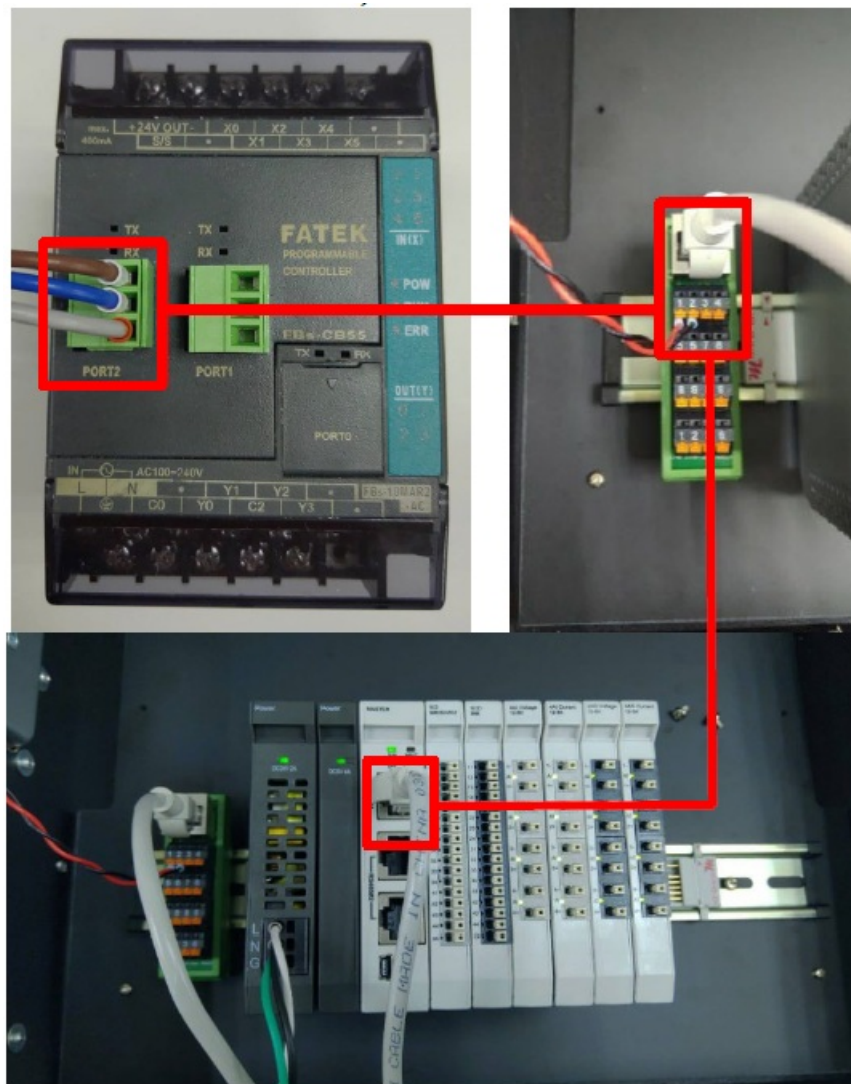
All FATEK's RS485 communication modules have the following pins on the terminal blocks (from top to bottom):

First pin: “+”

Second pin: “-”

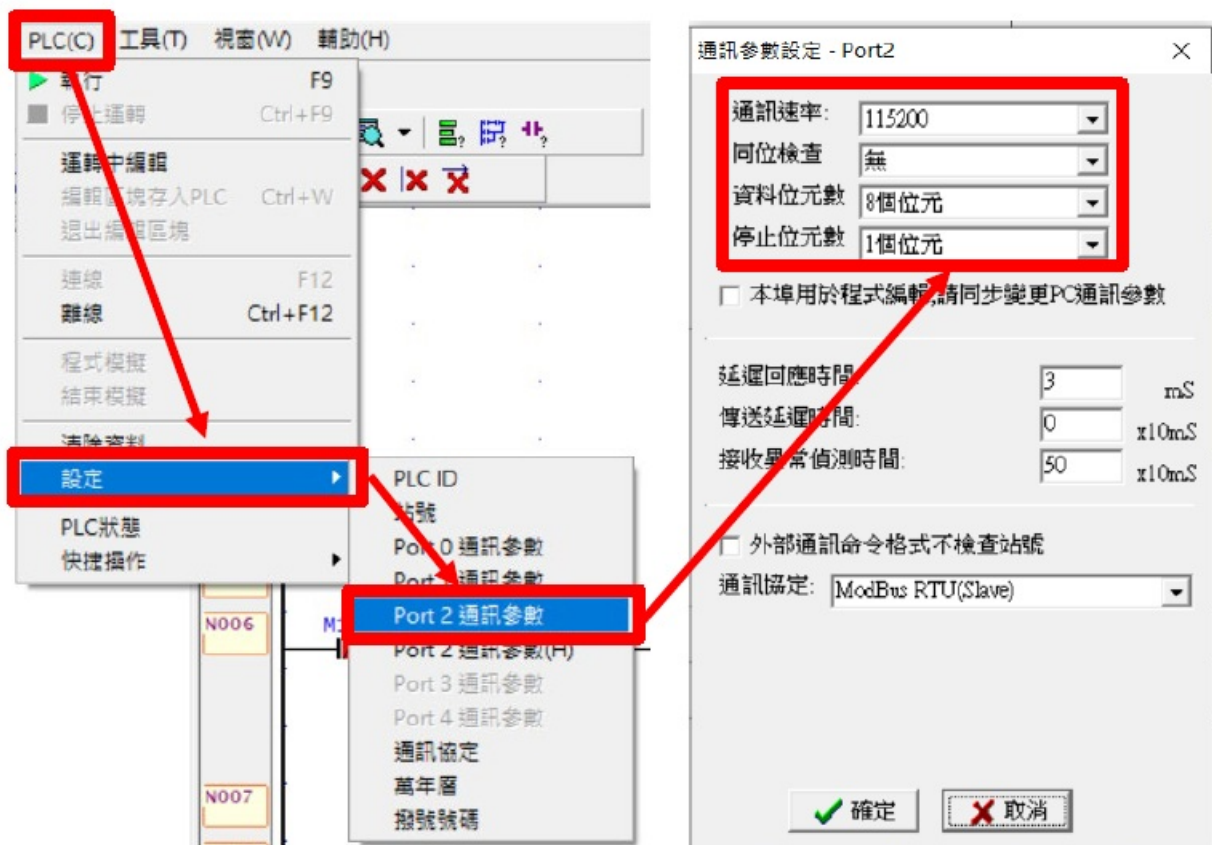
Third pin: “Ground”

2. Connect Port2 (RS485 A/B) on the top of the machine to the interface module (1/2) to convert it into a RJ45 connector, which will be connected to the main controller



FATEK PLC Connection Setup

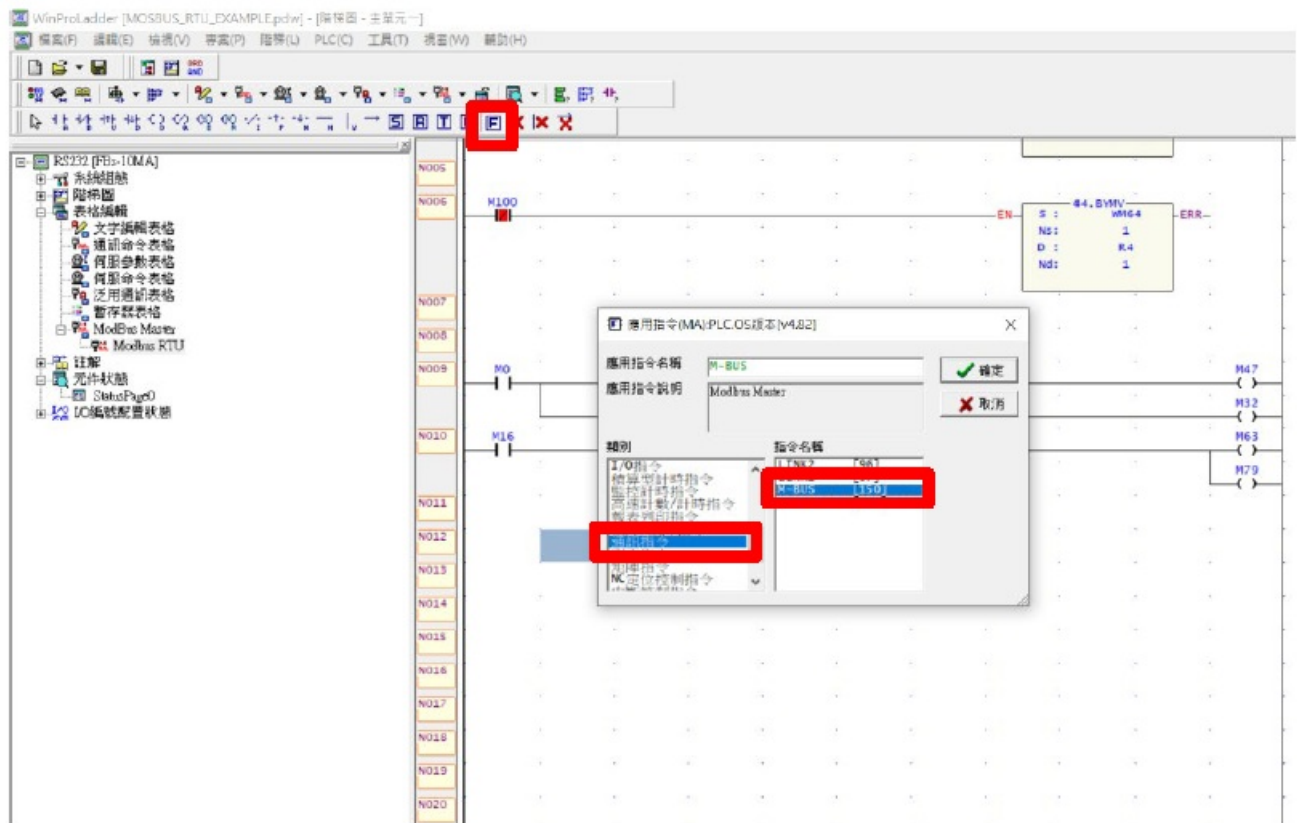
1. Launch WinProLadder and set up the communication ports



- This demonstration utilizes communication module CB55 RS485 with Port2 in its address

- The communication parameter setting must be consistent with **IO-GRIDTM** to enable communication

2. Editing the program- Click on “Set up program block diagram”, then from the drop-down menu, select “Communication Commands” and then select “M-BUS”



3. Function Commands

功能指令

☐ 32位元(Alt+D) ☐ 脈衝(Alt+P)

150 . M-BUS

Pt: >> (A)

SR: >> (B)

WR: >> (C)

☒ 確定

☒ 取消

☒ 輔助

- **Pt:** The address of the port for selecting a Modbus communication module
- **SR:** Starting register for the communication program
- **WR:** The starting register running the commands will take up totally 8 registers

In this example, we select "2", "R5000" and "R3000"

4. Internal Related Relays

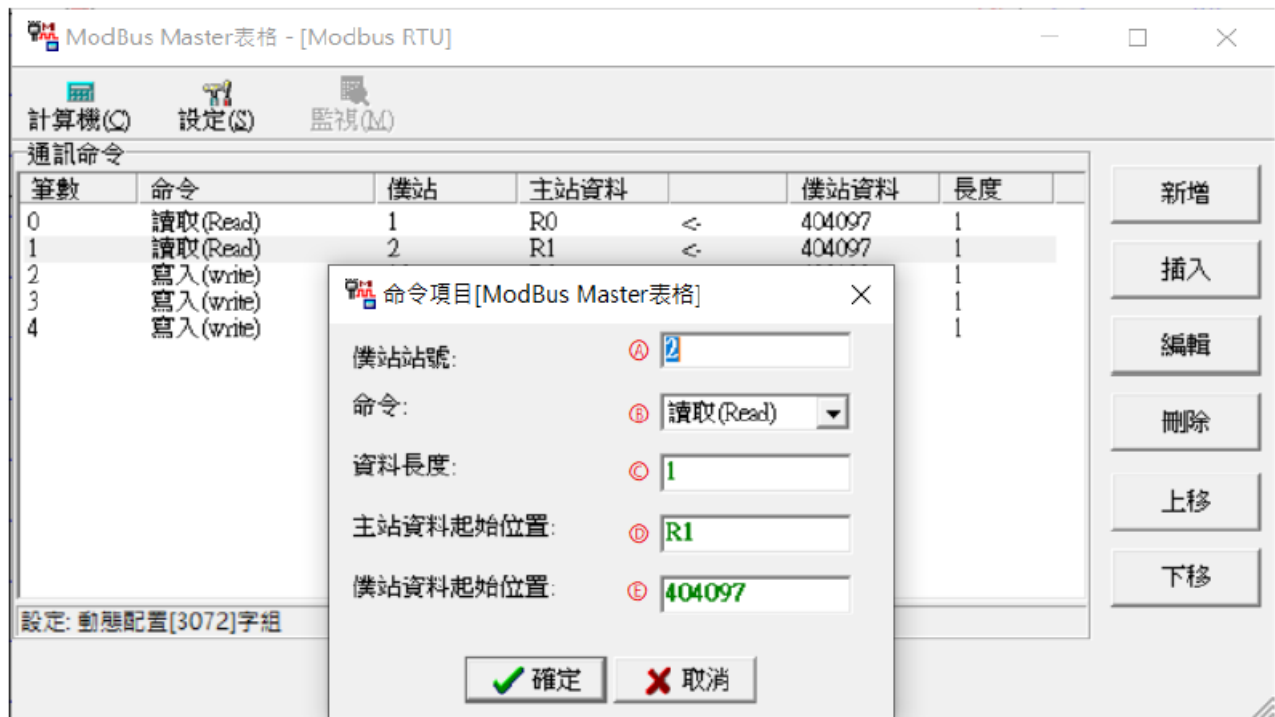


Internal Related Relays	
Communication Port	Port Ready Indicating Relay
Port1	M1960
Port2	M1962
Port3	M1936
Port4	M1938

5. Establish a Communication Form

The form's starting address must be the same with that of the register from the SR command

6. Setting the Communication Commands





1. **iD-GRIDTM** station number
2. From the drop-down menu, select "Read" or "Write" to PLC
3. With double-word data, select "2" for data length
4. Read **iD-GRIDTM**'s value to PLC R1's address
iD-GRIDTM's register address

Note:

※ **iD-GRIDTM**'s first GFDI-RM01N has the register address at 1000(HEX) converted to 4096(DEC)+1, and the starting address at 404097

※ **iD-GRIDTM**'s first GFDO-RM01N has the register address at 2000(HEX) converted to 8192(DEC)+1, and the starting address at 408193

Documents / Resources

	<p>DAUDIN GFMS-RM01S Remote I O Module System [pdf] User Manual</p> <p>GFMS-RM01S Remote I O Module System, GFMS-RM01S, Remote I O Module System, Module System</p>
	<p>DAUDIN GFMS-RM01S Remote I/O Module System [pdf] Owner's Manual</p> <p>GFMS-RM01S Remote I O Module System, GFMS-RM01S, Remote I O Module System, Module System</p>