

iO-GRID™
and AH500
Modbus RTU Connection
Operating Manual



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1. 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

1.1 Product Description

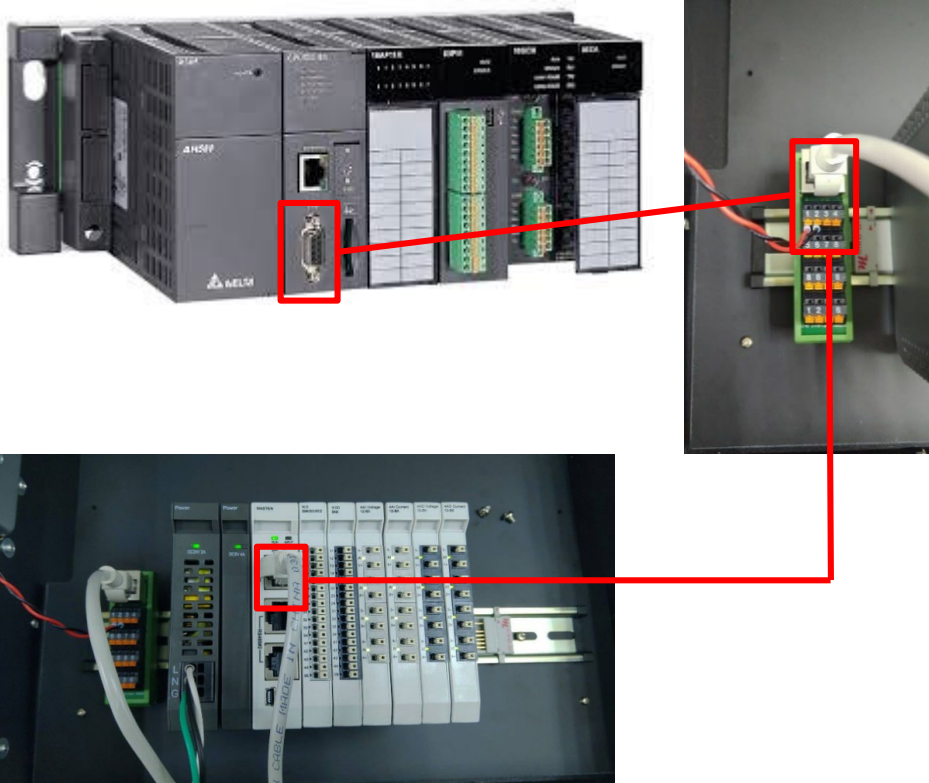
- I. The interface module is used externally to convert AH500 RS485's communication port (Modbus RTU) to a RJ45 connector
- II. The main controller is in charge of the management and dynamic configuration of I/O parameters and so on.
- III. The power module and interface module are standard for remote I/Os and users can choose the model or brand they prefer.

2. AH500 Connection Setup

This chapter explains how to use the ISPSOft program to connect AH500 with **iO-GRID™**. For detailed information, please refer to the *ISPSOft User Manual*

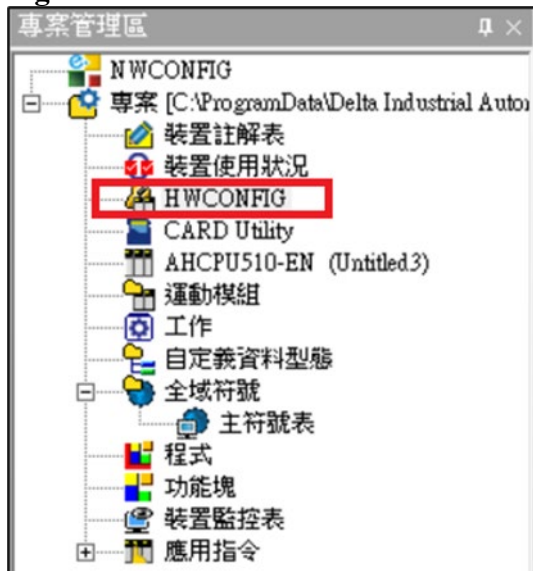
2.1 AH500 Hardware Connection

- I. The connection port is on the top of the machine. Using AHCP510-EN with COM1 (RS232 pin) for demonstration, connect COM(RS485 1/6 pin) to the interface module (1/2) to convert it into a RJ45 connector, which will be connected to the main controller

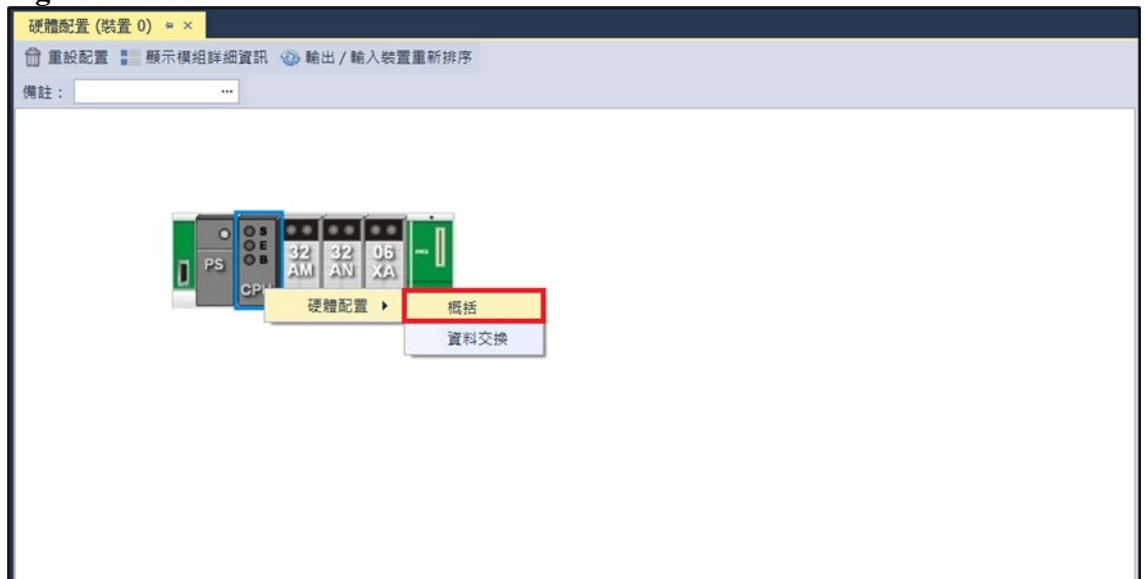


2.2 AH500 Connection Setup

- I. Launch ISPSOft, create a new file and double-click “HWCONFIG” on the project management section on the left to enter the configuration page



II. Right click on the PLC icon and select “Summary” under “Hardware Configuration”

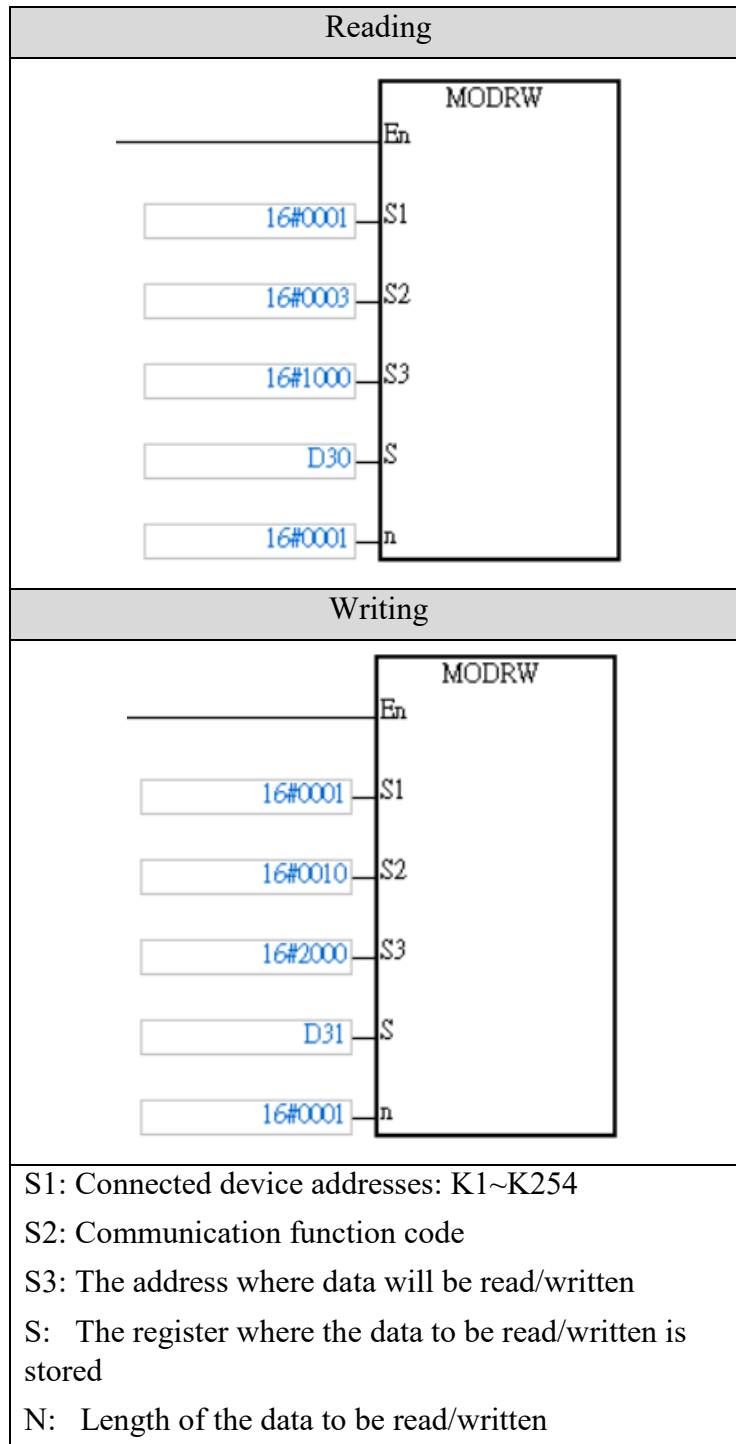


III. For this demonstration, click on “Communication Port” and set COM1’s communication settings to RS-485, 115200bps, 8 data bits, None parity and 1 stop bits (115200, 8,N, 1).



※ The communication parameter setting must be consistent with **iO-GRID^M** to enable communication

IV. Use the MODRW command to setup the reading/writing of **iO-GRID^m**'s I/O module

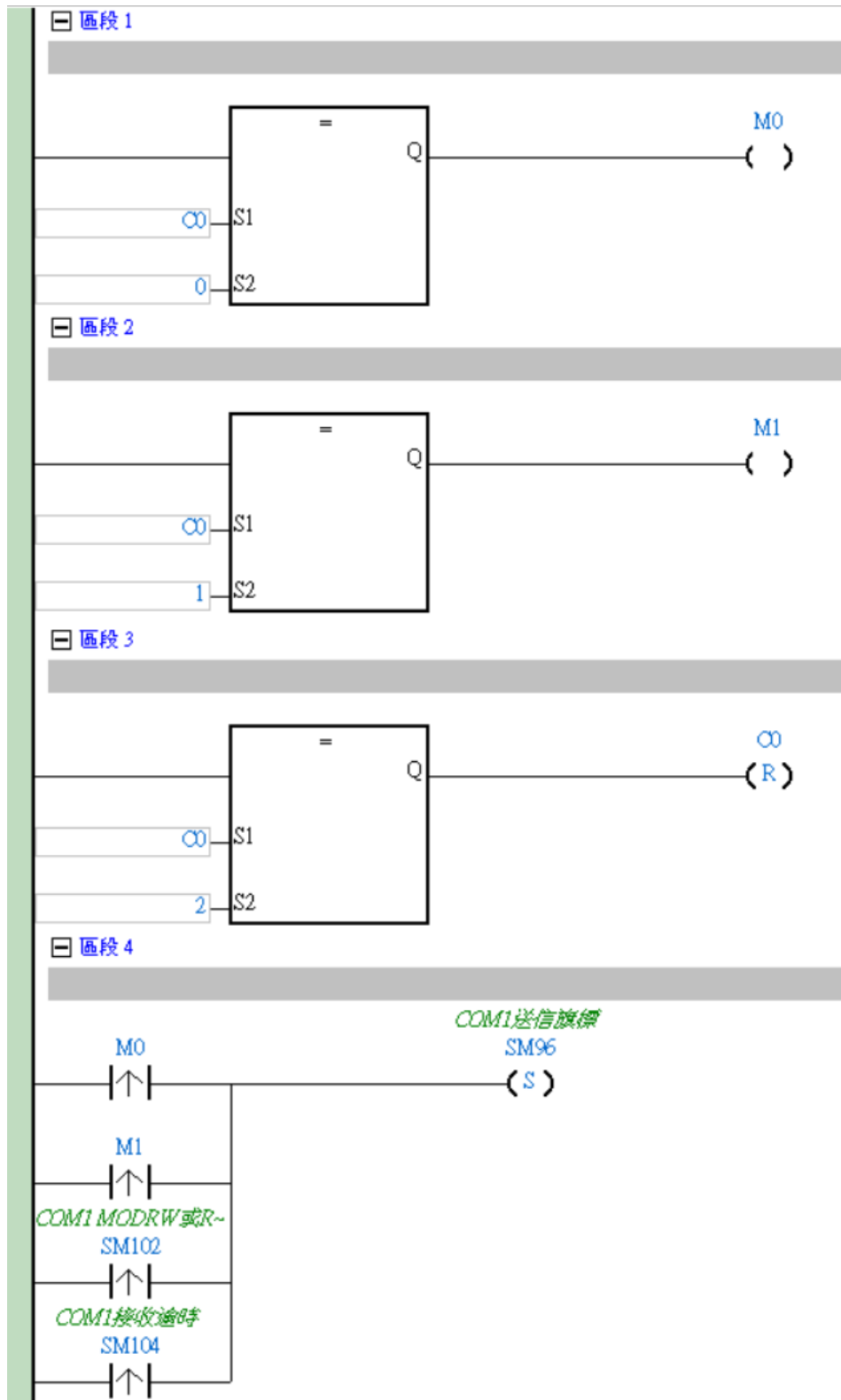


※**iO-GRID^m**'s first GFDI-RM01N has the register address at 1000(HEX)

※**iO-GRID^m**'s first GFDO-RM01N has the register address at 2000(HEX)

V. Programming Example:

This example is for communications and using RS485 communication to read/write **iD-GRID^m** module



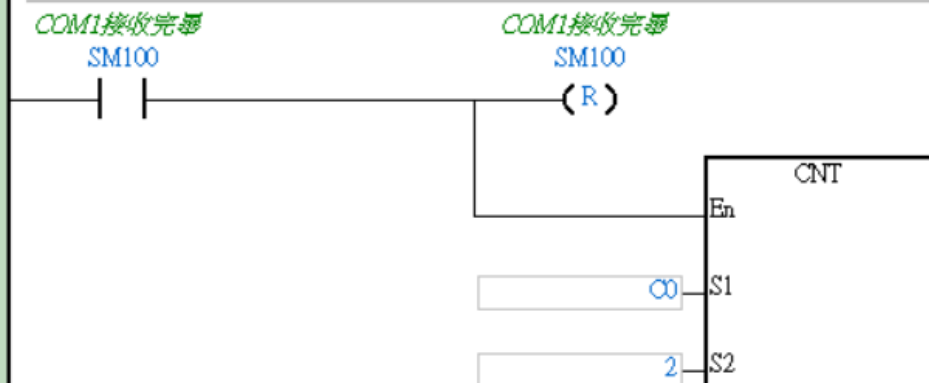
▣ 區段 5



▣ 區段 6



▣ 區段 7



▣ 區段 8

