



DAUDIN Delta PLC Modbus RTU Connection User Manual

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iO-GRIDTM Delta PLC Modbus RTU Connection User Manual



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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

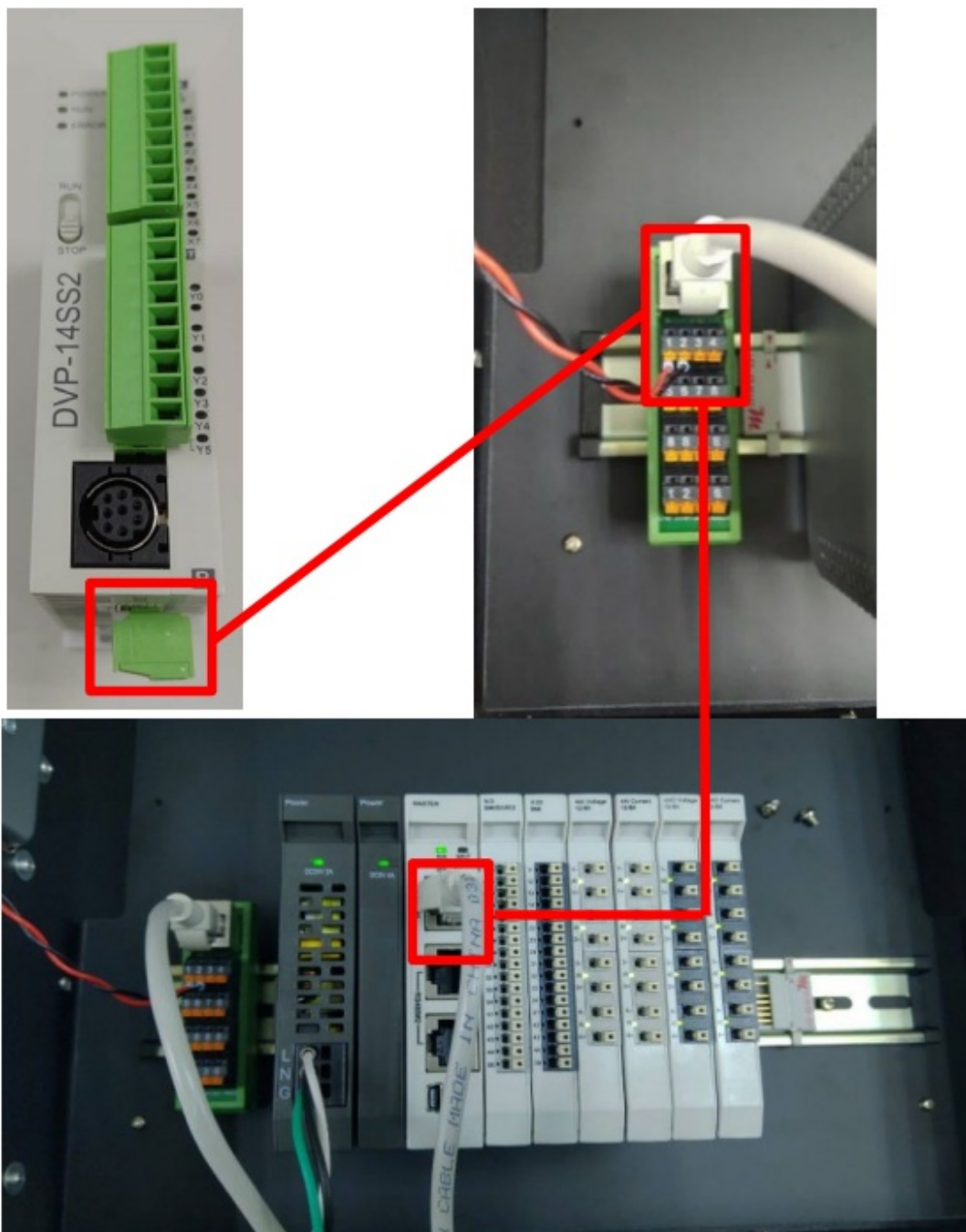
- I. The interface module is used externally to convert Delta PLC RS485's communication port (Modbus RTU) to a RJ45 connector
- II. The main controller is in charge of the management and dynamic configuration of I/O parameters and so on.
- III. The power module and interface module are standard for remote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

Delta PLC Connection Setup

This chapter explains how to use the ISPSOft program to connect Delta PLC with **IO-GRID[™]**.
For detailed information, please refer to ISPSOft User Manual

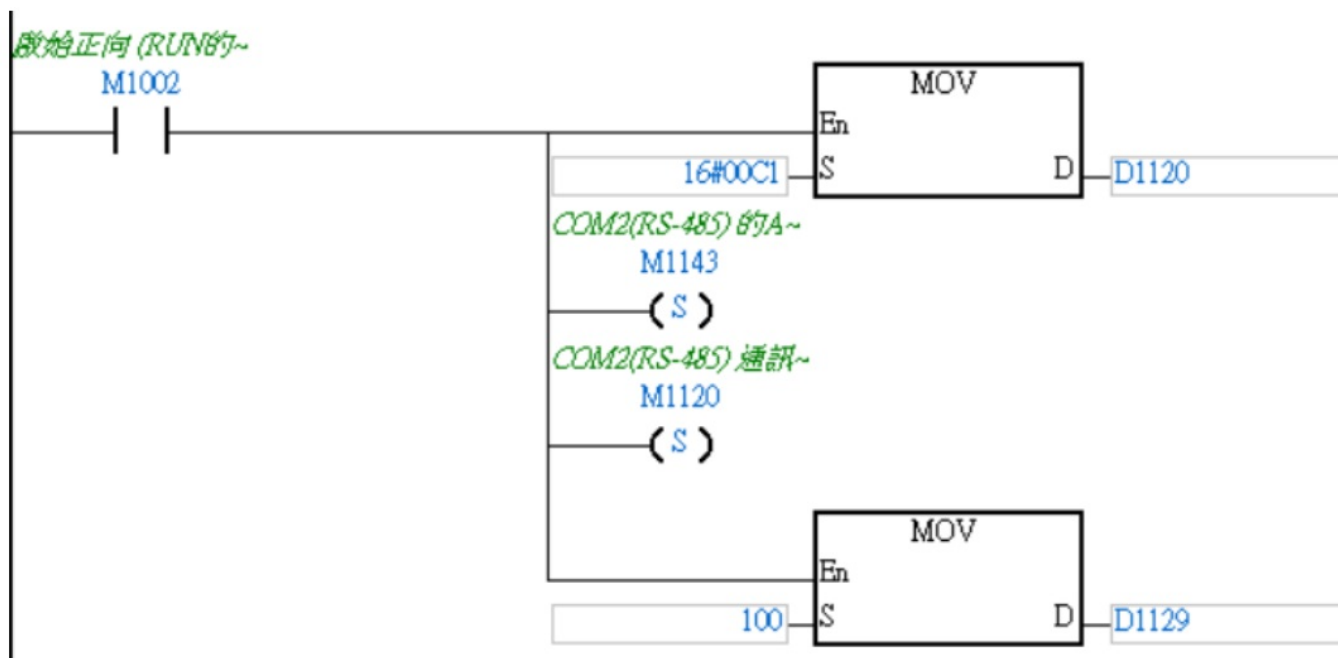
2.1 Delta PLC Hardware Connection

- I. The connection port is at the bottom of the machine. Using DVP-14SS2 for demonstration, connect Port 2(RS485 A/B) to the interface module (1/2) to convert it into a RJ45 connection, which will be connected to the main controller.



2.2 Delta PLC Connection Setup

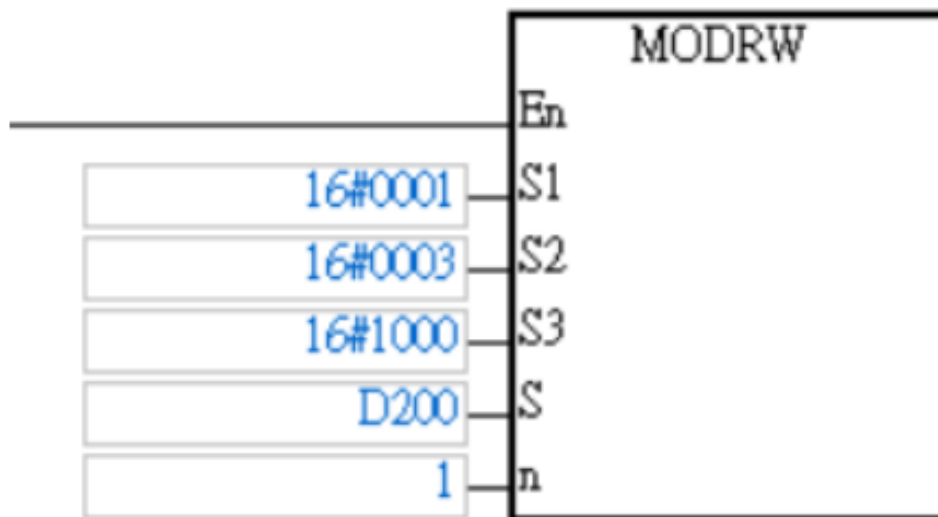
I. Launch ISPSoft and set COM2's communication settings to the RTU mode, 115200bps, 8 data bits, None parity and 1 stop bits (115200, 8,N, 1). Programming Example:



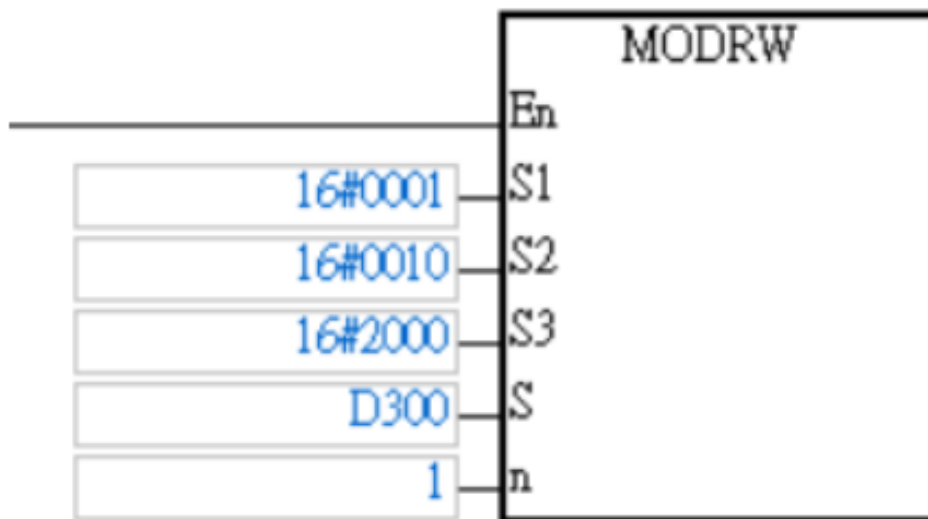
※The communication parameter setting must be consistent with **iQ-GRID™** to enable communication

II. Use the MODRW command to setup the reading/writing of **iQ-GRID™**'s I/O module

Reading



Writing



S1: Connected device addresses: K1~K254

S2: Communication function code

S3: The address where data will be read/written

S: The register where the data to be read/written is stored

N: Length of the data to be read/written

※iQ-GRIDTM's first GFDI-RM01N has the register address at 1000(HEX)

※iQ-GRIDTM's first GFDO-RM01N has the register address at 2000(HEX)

※Note: When using the read command, please use register D1296 to start using the stored data
Use the "read" command above to set up D200 to read 2 registers with first point of DI as the example.

Register	DATA	Description		
D200 (Low- order byte)	“0”	ADR 1 ADR 0		
D200 (Highoder byte)				
D201 (Low- order byte)		CM D 3 C MD 0		
D201 (High- order byte)	“3”			
D202 (Low- order byte)	44044	Data Bytes		
D202 (High- order byte)	“2”			
D203 (Low- order byte)	44044	Content at the address 2100 I-1	PLC will automatically convert ASCII characters into values and store them at D1296=H0001	
D203 up	4,019			
D204 down	44044			
D204 up	4414,			
D205 down	440,4	Content at the address 2101 1-1	PLC will automatically convert ASCII characters into values and store them at D1297=1-10000	
D205 up	44044			
D206 down	4404,			
D206 up	440,4			
D207 down	LRC CHK 1			
D207 up	LRC CHK 0			

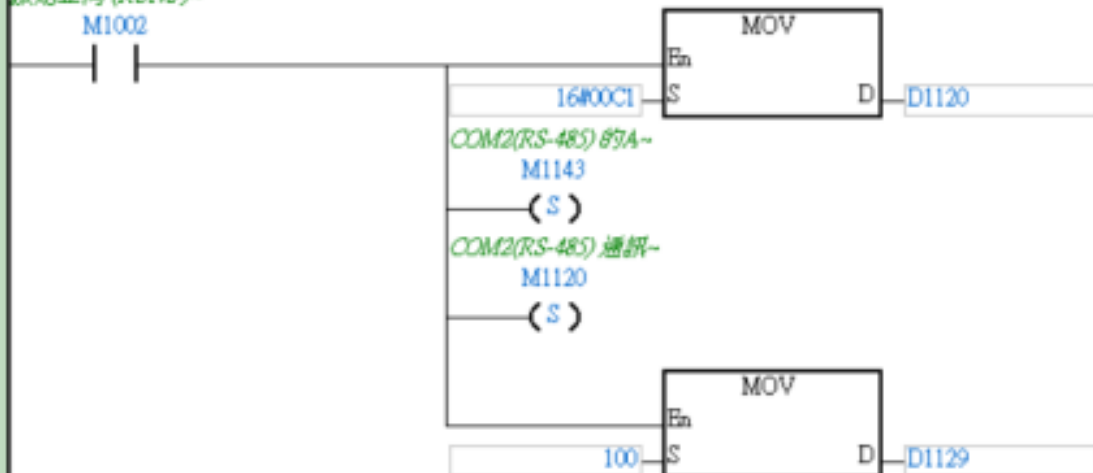
Based on this table, users can use D1296 register to read the entire data (Word).

III. Programming Example:

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

區段 1

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區段 2



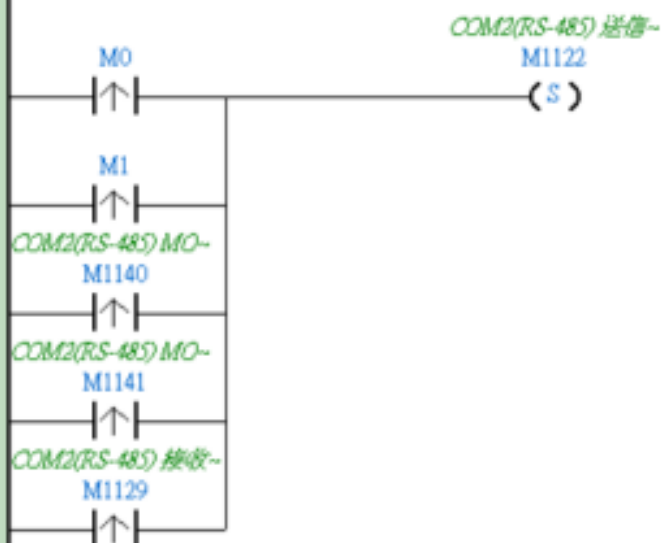
區段 3

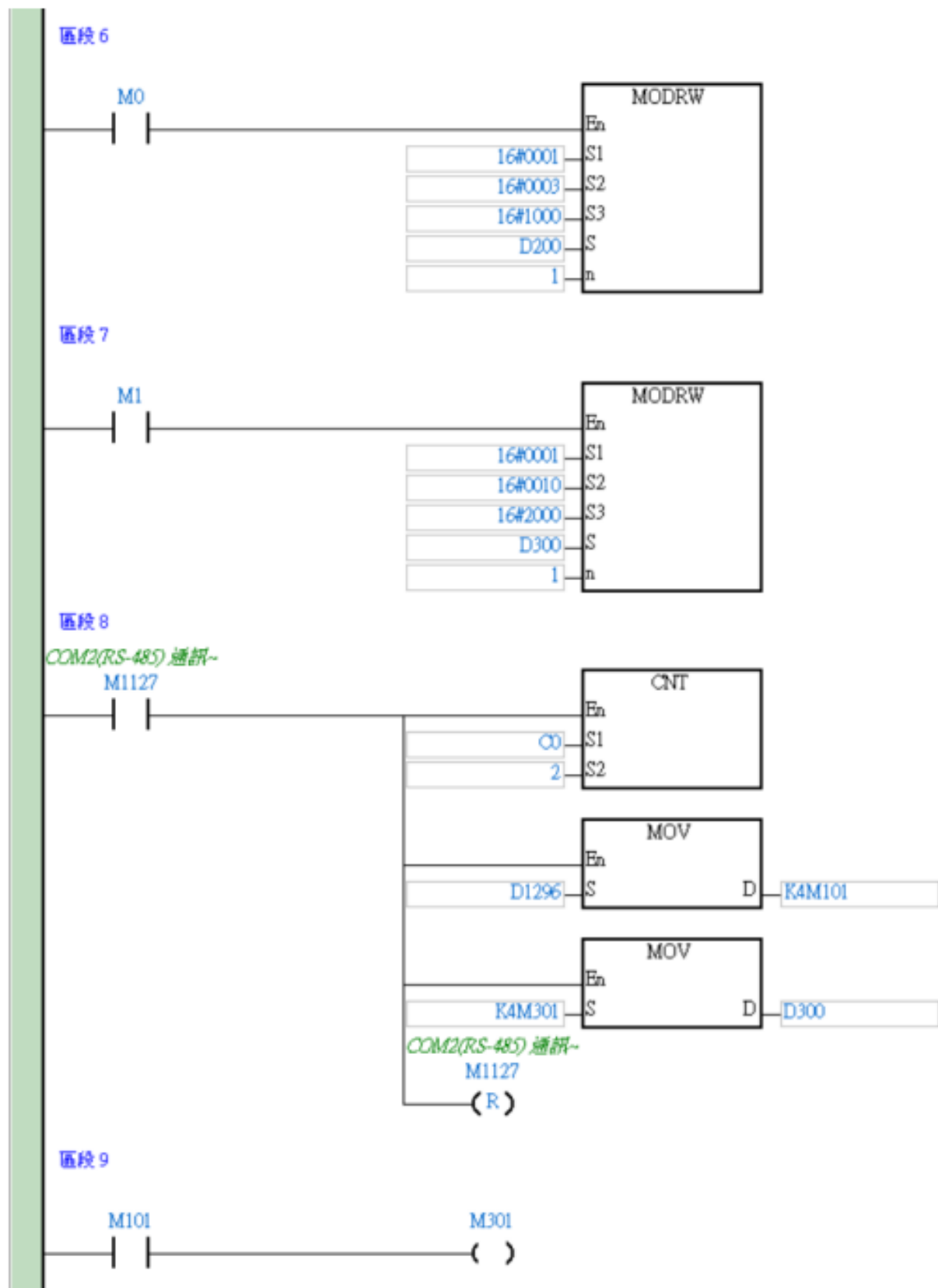



區段 4



區段 5





	<p>DAUDIN Delta PLC Modbus RTU Connection [pdf] User Manual</p> <p>Delta PLC Modbus RTU Connection, Delta PLC, Modbus RTU Connection, RTU Connection, Connection</p>
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