



DAUDIN GFMS-RM01S FATEK HMI Modbus RTU Connection User Manual

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iO-GRIDTM
and FATEK HMI
Modbus RTU Connection
Operating Manual



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Remote I/O Module 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 FATEK HMI 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.

FATEK HMI Connection Setup

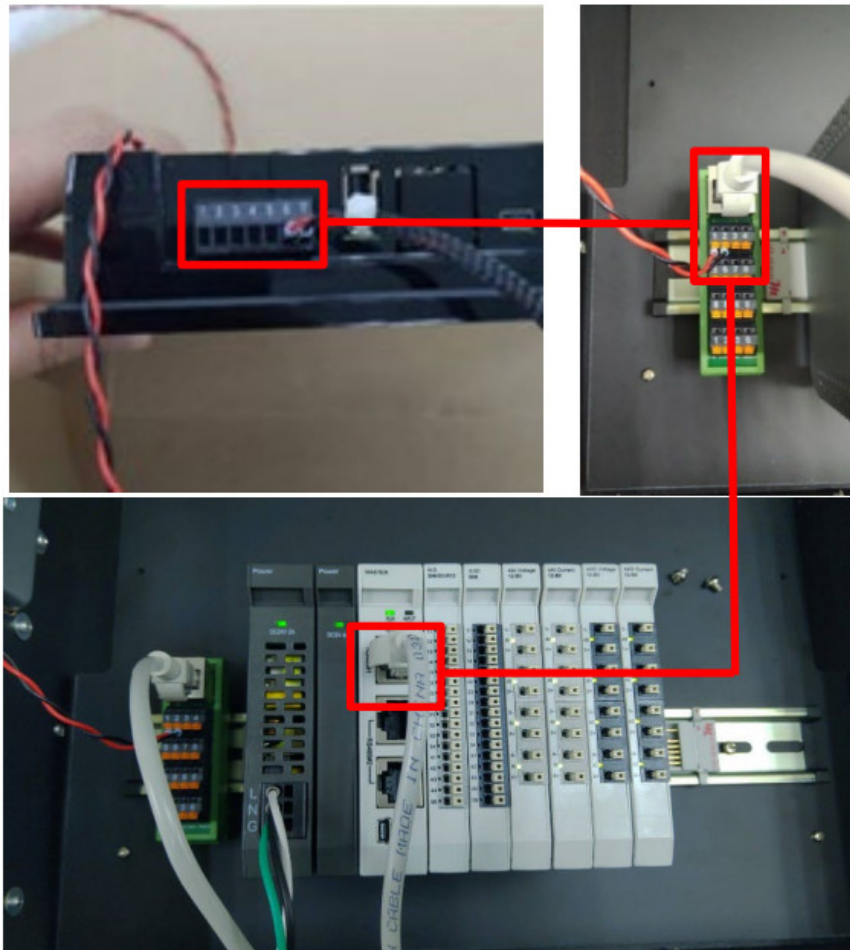
This chapter explains how to use the FvDesigner program to connect FATEK HMI with **IO-GRID™**. For detailed information, please refer to FATEK FvDesigner User Manual

2.1 FATEK HMI Hardware Connection

I. The connection port is at the bottom of the machine. Take P5070N for example. It uses COM3 (RS485 pin)

			
PIN#	COM3 (RS-422)	COM3 (RS-485)	COM4
1			DATA+
2			DATA-
3	ISO_GND	ISO_GND	ISO_GND
4	RX+		
5	RX-		
6	TX+	DATA+	
7	TX-	DATA-	

II. Connect the COM (RS485 6/7) at the bottom of the machine to the interface module (1/2) to convert it into a RJ45 connector, which will be connected to the main controller.

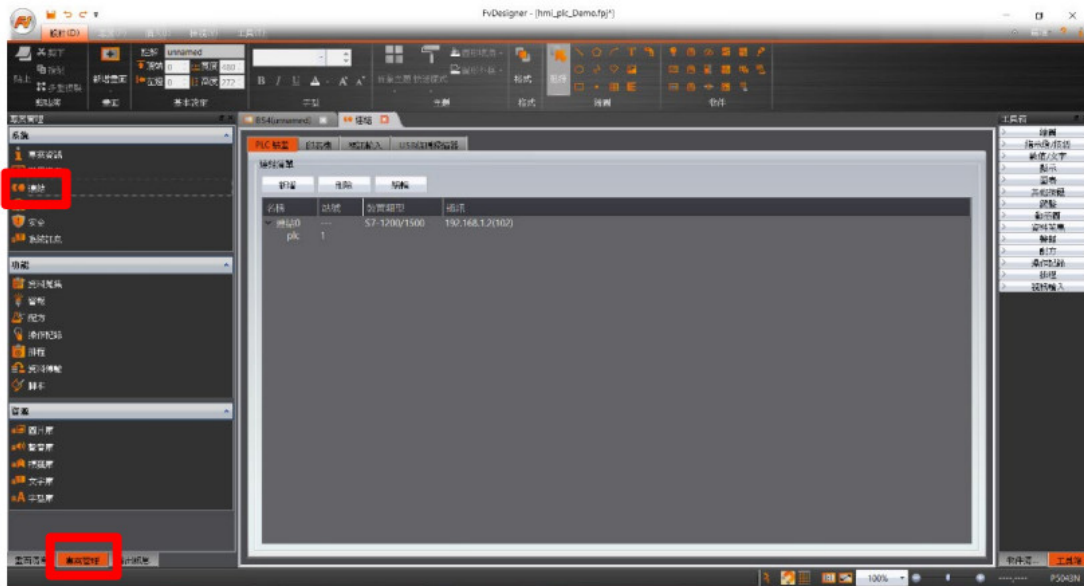


2.2 FATEK HMI Connection Setup

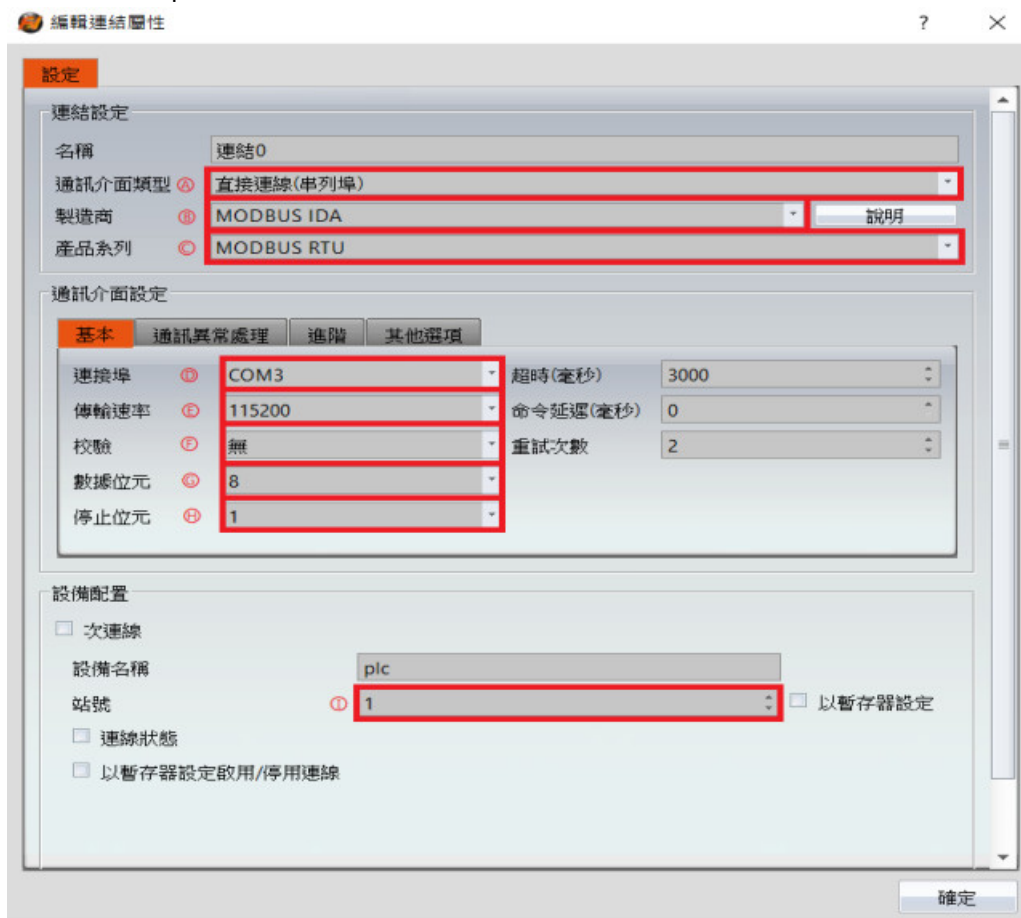
I. Launch FvDesigner, open a new file, select the controller page and then click on “Add”



II. Or you can click to open an existing file, select “Project Management” page and then click on “Connect”



III. Connection method setup



From the "Communication Interface Type" drop-down menu, select "Connect Directly (Serial Port)"

From the "Manufacturer" drop-down menu, select "MODBUS IDA"

From the "Product Series" drop-down menu, select "MODBUS RTU"

From the "Connection Port" drop-down menu, select "COM3"

From the "Transmission Rate" drop-down menu, select "115200"

From the "Calibrate" drop-down menu, select "No"

From the "Data Bits" drop-down menu, select "8"

From the "Stop Bits" drop-down menu, select "1"

Set up based on the device

Notes:

※The demonstration in the Connection Operating Manual uses COM3.

For using 485 pin with COM3, please refer to 2.1 FATEK HMI Hardware Connection.

※Regarding **iD-GRIDTM**'s parameter settings, please refer to **iD-GRIDTM** Control Module Operating Manual.

IV. Set up the location for the tag register



From the “Device” drop-down menu, select the device to be connected

From the “Type” drop-down menu, select “4x”

Set up according to the plan

Example:

iQ-GRID TM register address		HMI's corresponding address*
R	0x1000	4097
R	0x1001	4098
R	0x1000.0	4097
W	0x2000	8193
W	0x2001	8194
W	0x2000.0	8193

Note:

※HMI's corresponding address: iQ-GRIDTM's first GFDI-RM01N has the register address at 1000(HEX) converted to 4096(DEC)+1

iQ-GRIDTM's first GFDO-RM01N has the register address at 2000(HEX) converted to 8192(DEC)+1

※Regarding iQ-GRIDTM's register address and format, please refer to iQ-GRIDTM Control Module Operating Manual



Documents / Resources

	DAUDIN GFMS-RM01S FATEK HMI Modbus RTU Connection [pdf] User Manual GFMS-RM01S FATEK HMI Modbus RTU Connection, GFMS-RM01S, FATEK HMI Modbus RTU Connection, FATEK HMI Modbus, HMI Modbus, Modbus
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