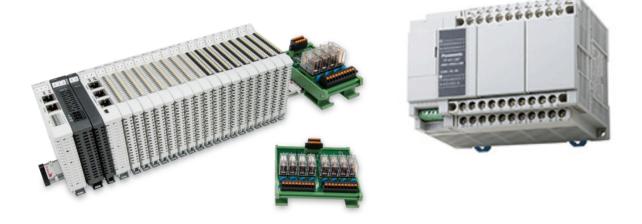


2302EN V2.0.0



iD-GRIDM

and Panasonic-FP-XH 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	GFDI-RM01N Digital Input 16 Channel			
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 Panasonic AFPX-COM3's communication module (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.

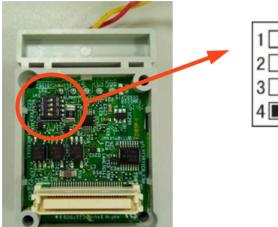
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2. Panasonic - FP - XH Connection Setup

This section details how to use the FPWIN GR7 software to connect Panasonic FP-XH, using the communication module AFPX-COM3, with D-GRIDM. For detailed information, please refer to the <u>Communication Chapter in the Programmable Controller FP-XH Series User Manual</u>

2.1 FP- XH Hardware Connection

I. Set the switches on the back of the communication module AFPX-COM3 to the RS485 mode.





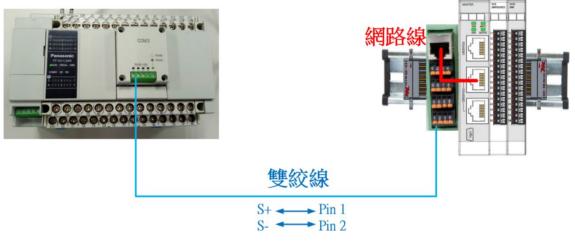
Switch	Function	Setup			
1	Switch between RS-485/	In the RS-485 mode when			
2	RS-422	switched to "ON"			
3	K3-422	switched to ON			
4	Terminating resistor	"ON" with a terminator and "OFF" without a terminator			



II. After a communication module is set up, connect it to FP-XH via RS485 and the indicator light will light up



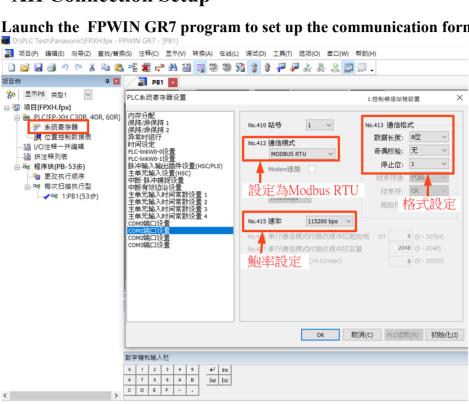
III. Connect AFPX-COM3's terminals (S+ ` S-) to the interface module (Pin1 and Pin2). The interface module is connected to the control module via the Ethernet cable connected to its RJ45 port





2.2 **FP-XH** Connection Setup

Launch the FPWIN GR7 program to set up the communication format I.





II. Reading of the communication register

— F146 RECV	- F146 RECV H1301 H1000		H1301 H1000 K1		-			
Command functions are listed below:								
Communication & Modbus Com Numbers			Read Register	Data Amount for Reading	Initial address of the command execution			

This line of code is equivalent to Modbus Function Code							
Station No.	Function code	Read Register	Data Amount for Reading				
01	03	10 00	00 01				

Writing of the communication register

	F145 SEND	H1601	DT200		H2000		K1	F	
Command functions are listed below:									
Communication Port Program Numbers & Modbus Commands & Station					al address o e command		Write	-	Data Amount
		Numbers		execution Register		er	for Writing		

This line of code is equivalent to Modbus Function Code							
Station No.Function codeWrite RegisterData Amount for Writing							
01	10	20 00	00 01				

Notes:

iD-GRID^{}'s first GFDI-RM01N has the register address at 1000(HEX) *iD-GRID^{*}'s first GFDO-RM01N has the register address at 2000(HEX)



III. Programming Example:

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

