

2302SC V2.0.0



i ロ- G RID が 与MLESEC-Q Modbus RTU 连线操作手册



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1. 远程 I/O 模块配套列表

料号	规格	说明
GFMS-RM01S	Master Modbus RTU, 1 Port	主控制器
GFDI-RM01N	Digital Input 16 Channel	数字输入
GFDO-RM01N	Digital Output 16 Channel / 0.5A	数字输出
GFPS-0202	Power 24V / 48W	电源
GFPS-0303	Power 5V / 20W	电源
0170-0101	8 pin RJ45 female connector/RS-485 Interface	转接模块

1.1 产品描述

I. 转接模块用于外部与 Mitsubishi PLC 通讯模块(Modbus RTU)转换成 RJ45 接口。

II. 主控制器负责管理并组态配置 I/O 参数···等。

III. 电源模块以及转接模块为远程 I/O 标准品,使用者可自行选配。



2. MLESEC-Q series 连结设定

本章节说明如何使用 GX Works2 软件,将Q series与; GRID **1** 进行连结,详细说明 请参考说明书 <u>MODBUS(R) Interface Module User's Manual</u>

2.1 Q series硬件接线

I. 连接器位于QJ71MB91模块下方。采用RS485 连接方式





II. 将QJ71MB91下方COM(RS485 A/B)与转接模块(1/2)对接 转换成RJ45接口与主控制器对接





- 2.2 Q series连线设定
 - I. 开启 GX Works2 从左方" Project" 点选" Inteligent Function Module"选单,点击" QJ71MB91"选单内的" Switch Setting "

 \times



II. 联机通信设置(使用 CH2)

Switch Setting 0000:QJ71MB91

Item			CH1		CH2	
Mode setting		0	Master Function	on /	Master Function	
	MODBUS device assignment parameter starting method		User Setting Parameter		-	
	Data bit		8	B	8	
Transmission Setting	Parity bit		Exist	O	Not Exist	
	Even/odd		Even	0	Even	
	Stop bit		1 DTUM-de	<u> </u>	1 DTUMede	
	Prame r	node	RTU Mode Disable		RIU Mode	
Communication speed setting	Communicati	ion speed	300 bps	•	115200 bps	
Station No. setting	Station No.	setting	0		0	
* This dialog setting is Default value will be if the Switch Setting	linked to the s shown in the of the PLC pa	Switch Setting dialog rameter cont	g of the PLC parameter. tains an out-of-range value		OK Cancel	
* This dialog setting is Default value will be if the Switch Setting	linked to the s shown in the of the PLC pa 自选取"	Switch Setting dialog rameter cont Maste	g of the PLC parameter. tains an out-of-range value er Function/ M	laster	ок Cancel Function"	
*This dialog setting is Default value will be if the Switch Setting A 下拉式选自 B 下拉式选自	linked to the S shown in the of the PLC pa 自选取"	witch Setting rameter cont Maste 8"	g of the PLC parameter. tains an out-of-range value er Function/ M	laster	ок Cancel Function"	
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*This dialog setting is Default value will be if the Switch Setting D 下拉式选单 D 下拉式选单 D 下拉式选单 E 下拉式选单 E 下拉式选单 G 下拉式选单	inked to the s shown in the soft the PLC part 自选取" 自选取" 自选取" 自选取" 自选取" 自选取" 自选取" 自选取"	witch Setting dialog rameter cont 8" Not E. Even" 1" RTU I Disabl	g of the PLC parameter. tains an out-of-range value er Function/ M xist" Mode"	aster	ок Cancel	

注意: Ch1 一定要改成 User Setting Parameter 通讯模块才会启动

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Ⅲ. 点击"Automatic_Communication_Parameter"设置读取以及写入方式

Project	Display Filter Display All			
	Item	CH1		CH3
E Parameter	Automatic communication parameter	Set the automatic communication parameters when using the	automatic communication function with th	e QJ71MB91 operated as a master.
E-G 0000:0J71MB91	Automatic Communication Parameter 1	The parameter setting concerning the automatic communication	on.	_
Switch Setting	Target Station No.	1	1	
- 🔐 Automatic_Communication_Parameter	Request Interval Timer Value	0	0	
- MODBUS_Device_Assignment_Parameter	PLC Response Monitoring Timer Value,Broadcast Delay Value	0	5	
- Global Device Comment	Type Specification of The Target MODBUS	0000h:No Specification	8 0505h:Read/Write Holding Regis	ers
🗄 🚾 Program Setting	- Read Setting	The parameter setting concerning reading data from slave.		
e M POU	Head Buffer Memory Address	0000 h	© 2000 h	
E- Program	Access Points	0	E 10	
Local Device Comment		The parameter setting concerning writing data to slave.		
🗄 👹 Device Memory	 Head Buffer Memory Address Target MODBLIS Device Head Number 	0000 h	0 4000 h	
- 🔁 Device Initial Value	- Access Points	0	0 10	
	Automatic Communication Parameter 2 Satting Existence	The parameter setting concerning the automatic communication of maked	on.	
	- Target Station No.	1	0	
Project	Request Interval Timer Value	0	0	
	Value/Broadcast Delay Value	0	0	
🥰 User Library	Set the automatic communication parameters when us	ing the automatic communication function with the QJ71MB91 operated as a	naster.	
Gonnection Destination				
·				
④下拉式选单选	取"1:valid"			
B下拉式选单选	取"0505h:Re	ead/Write Holding	Registers"	
_		U	2	
© 设定为 2000h				
① 读取日标缓右	哭把他抽屉	母宝为 4006		
8 庆城日怀级日		XXE/19 4070		
也				
④ 设定为 4000h				
🕒 与人日怀绂仔	奋起始地址设	文正月 8192		
_				
(H) 写入数量				

备注:

※ i□-GRID**7**// 第一组 GFDI-RM01N ,缓存器地址1000(HEX)转成4096 ※ i□-GRID // 第一组 GFDO-RM01N ,缓存器地址2000(HEX) 转成8192

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IV. 点击"Auto_Refresh"设置读取以及写入的内部缓存器

Project	Display Filter Display All		
Parameter A Intelligent Function Module	Item Transfer to PLC	CH1 The data of the buffer memory is transmitted to the specified device.	CH2
0000:QJ71M891 Switch Setting Automatic_Communication_Parameter MODBUS_Device_Assignment_Parameter	Auto Communication Function Dutter Input Auto Communication Function Operation Status Storage Area (Parameter 1 to 32) User Setting Area (Input) Transfer to Intelligent Function Module	The data of the specified device is transmitted to the buffer memory.	2010.10)
Global Device Comment Global Device Comment Global Device Comment Global Device Mann Global Device Comment Global Device Comment Global Device Comment	Liker Setting Area (Output)	Input Device 0000:0/711M891 X - Auto Communication Function Buffer Input Area The 0/7194931 stave the data in auto communication buffer input area sequentially from large address in unit of 1 word (16 brt) when receive response from the slave.	
Device Initial Value	Taulo Davie Staling Easts Mello 201	Device Specification DO Offset Value 0 크 Transfer Word 10 크	
User Library	Infanise Unecom (Linesgent Function Model -> PHL) Notation (Device No. (Offset Values (Linesfer Value(0), T Buffer Memory Address[8192 (2000h)], Offset Value(0), T Device Comment [] The QJ71MB91 store the data in auto communication buff	OK Cancel	se from the slave.