GW-7552 (Modbus RTU Slave) Example for SIMATIC STEP 7

- 連線前置作業
- 範例 1:PLC 從Modbus master 接收 DO 資料
- <u>範例 2:PLC</u>從Modbus master 更新DI資料
- 範例 3:PLC 從Modbus master 接收AO資料
- <u>範例 4:PLC</u>從Modbus master 更新AI資料



設置裝置(PLC、GW-7552)參數如下



SIMATIC PLC * PROFIBUS Device **2**(Master)



GW-7552

- PROFIBUS Device 6 (Slave)
- Modbus Device **99** (RTU Slave)

Comport Settings:

• Baud rate:115200

- Data bit: 8
- Stop bit : 1
- Parity: None
- Byte order: Big Endian





新增一個PROFIBUS 連線並新增一個GW-7552模組







設置PLC 在PROFIBUS 端的位址 如下



SIMATIC PLC * PROFIBUS Device **2** (Master)

1.雙擊 DP 圖示 2.點選"Properties" 3.更改PROFIBUS 位址 4. 點選 OK

n Edit Insert PLC View Options Window Help		
~ 🖳 🛼 🚑 🛍 🋍 👔 💳 🎇 💦		
Properties - DP - (R0/S2.1)	•	
General Addresses Onerating Model Configuration Clock Properties - PROFIBUS interface DP (R0/S2.1) General Parameters DI16/D016 Address: Highest address: 126 Transmission rate: 1.5 Mbps Subnet: PROFIBUS(1) 1.5 Mbps Properties Delete	E	Find: Profile: Standard PROFIBUS DP PROFIBUS-PA PROFINET IO PROFINET IO SIMATIC 300 SIMATIC 400 SIMATIC PC B ■ SIMATIC PC S
Image: Second	•	 ✓ Ⅲ PROFIBUS-DP slaves fc SIMA TIC S7, M7, and ((distributed rack)
get neip.		





設置 GW-7552 在PROFBUS的位址







設置Gw-7552 comport 如下



Comport Settings:

- Baudrate:115200
- Data bit: 8
- Stop bit : 1
- Parity: None
- Byte order: Big Endian
- Output Data Mode : Auto
- Modbus Device ID (S) :99
- 1.雙擊 GW7552 圖示
- 2.點選Parameter Assignment 3.修正
- 5.修正 Modbus Type : Slave Byte order: big Endian Output Data Mode : Auto Modbus Device ID: 99 4.點選"OK"
- 可以在此修正參數

	General Parameter Assignment	
BUS(1): DP master syster	Parameters Station parameters Device-specific parameters □□ parity □□ parity □□ data □□ stop bit □□ Modbus Type □□ Modbus Format □□ J/O Safe Mode □□ Output Data Mode □□ Modbus Poling Interval(ms) (M)	Value 115200 baud none 8 data bit 1 stop bit Slave Modbus RTU Retain Last Value Big Endian(Motorola format) Auto 99 500
ation I Address	Hex parameter assignment	Const



確定GW-7552 背後的指撥開關為 Normal模式

Refer to GW-7552 user manual 2.6





連線前置作業

更改指撥以設置PROFIBUS的位址 設置GW-7552在PROFIBUS端連線位置為6

Refer to to GW-7552 user manual 2.4



Figure 12: DIP switch







0 2	HW Config - [SIMATIC 300 Station (Confi	iguration) S7_P	o2]				
00	Station Edit Insert PLC View O	ptions Window	Help				_ & ×
Ľ	New	Ctrl+N	N?				
	Open	Ctrl+O					ㅋㅋㅋ
	Open ONLINE		ter system (1)		Find:	7552	et ei
	Close			=	Profile:	Steve d and	
	Save		ve and Compile "			Istandard	utraut Baland
	Save and Compile						nut Relay/C
						aI 🚺	put Relay/C
	Properties					🚺 In	put Relay/C
	Import						put Relay/C 😑
	Export					uI 📔	put Relay/C
		Colorado a K				al 🚺	put Relay/C
	Consistency Check	Ctrl+Alt+K				📕 In	put Relay/C
	Check CiR Compatibility	Ctrl+Alt+F				al 🛛 ····	put Relay/C put Relay/C
	Print	Ctrl+P				ul	put Relay/C
	Print Preview			-		aI 🚺	put Relay/C
•	Page Setup			F		In In	put Relay/C
	rage setap					מו 🚺	put Relay/C put Relay/C
•	1 S7_Pro2\SIMATIC 300 Station					In	put Relay/C
s	2 S7_Pro1\SIMATIC 300 Station		ddress O Address Comment			aI 🚺	put Relay/C 👻
Ē	3 S7_Pro4\SIMATIC 300 Station		02		•	111	۲.
	4 S7_Pro3\SIMATIC 300 Station		3				₹ <u>≺</u>
1	Evit	$\Delta I + \pm E A$		-			
,		AILT14]		
Save	es and creates all system data in the curre	ent station.					Chg //

HW Config - [SIMATIC 300 Station (Configuration) -- S7_Pro2] × Station Edit Insert PLC որը View Options Window Help _ & × Ctrl+L Download... 📂 🔓 🖼 🗣 រ 9 D 點選"Download to PLC" Upload... CPU313 z ۰ 미지 DP XZ 7552 Download Module Identification... Find: mt mi = 1 2.2 DI16/DO1 2.4 Count Upload Module Identification to PG... Profile: Standard 3 4 Faulty Modules... Output Relay/ 🔺 Input Relay/C Module Information... Ctrl+D Input Relay/C Input Relay/C Operating Mode... Ctrl+I Input Relay/C 🗐 Clear/Reset... Input Relay/C Set Time of Day... Input Relay/C Input Relay/C Monitor/Modify Input Relay/C Input Relay/C Update Firmware... Input Relay/C Save Device Name to Memory Card... Input Relay/C Input Relay/C Ethernet ► Input Relay/C ۰. Input Relay/C PROFIBUS Þ Input Relay/C (6) GW-7552 Input Relay/C Save Service Data... Input Relay/C 👻 Slot DP ID ----ment 111 24DO System setting 0...2 1 2 32DI --> System setting 0...3 ŧ٢ 3 25 Input Relay/Coil--10 byte 4...13 4

Loads the current station into the load memory of the current module.

Chg



🖳 HW Config - [SIMATIC 300 Station (Configuration) S	\$7_Pro2]							• 🔀
Station Edit Insert PLC View Options Wind	dow Help		👪 Var	- [VAT_1	S7_Pro2\SIMATIC	300 St	-	B ×
	Ta Monda	Table Edit Insert PLC Variable View Options						
<i>X2 DP</i> BUS(1): D								
2.2 DI16/DO16	()							- bî Øi∔
$\frac{2.4}{3}$	1.輸入對應的PR	OFIBUS位址	<u></u>		¹² 7 //cz			
	2.點選 "Monitor	" 按鈕		Adduess S	mbol Display format	Status value	Modify value	lay/▲ v/C
				ш 4 тр г	HEX			у/С
→ (6) GW-75!			2		HEX			y/C
								y/C y/C
			5	ш / в o	HEY			у/С
- LEUNE			6	шо пва	HFY			y/C v/C
			7	ш у ТВ 10	HEX			y/C y/C
			8	IB 11	HEX			у/С
			9	IB 12	HEX			y/C v/C
			10	IB 13	HEX			y/C
			11					у/С
(6) G₩-7552			J %					y/C v/C
Slot DP ID Order Number / Designation	I Address Q Address	Comment	Press F:	1 for help.			٩	y/C +
1 24DO System setting	02				A			
2 32DI> System setting	4 12							₹ <u>≺</u>
4 Input Kelay/Con10 Byte	412				-			
Press F1 to get Help.								Chg //

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確認 GW-7552的Comport設定 與 Modbus Master Tool相同

(ex: MBRTU, MBRTU 下載: <u>http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus/modbus_utility/</u>)

Com Port Settings: baud rate-115200, data bits-8, stop bits-1, parity-none







	War - [VAT_1 @S7_Pro2\SIMATIC 300 Station\CPU Table Edit Insert PLC Variable View Options Window Help									
F										
0										
Γ	Adduess Symbol Display format Status value Modify value									
1		B	4		HEX		B#16#11			
2		B	5		HEX	1	B#16#22			
3		B	6		HEX	1	B#16#33		C	
4		B	7		HEX		B#16#44			
5		B	8		HEX		B#16#55			
6		B	9		HEX		B#16#66			
7		B	10		HEX		B#16#77			
8		B	11		HEX		B#1 <i>6</i> #88			
9		B	12		HEX		B#16#99			
10		B	13		HEX		B#16#AA			
11										
									:	
\$7_	Pro	2\SI	MA	TIC 300	Station\	\S7	Program(1)		•	

User can receive DO data in IB4~IB13





0 2:	HW C	Config - [SIMATIC 300 Station (Confi	iguration) S7_P	ro2]							- • •
00	Stat	ion Edit Insert PLC View O	ptions Window	Help							_ 8 ×
Ľ		New	Ctrl+N	h ?							
		Open	Ctrl+O					*			
Ę		Open ONLINE						-	<u>F</u> ind:	7552	nt ni
		Close							Profile:	, Standard	
		Save									
ļ		Save and Compile	Ctrl+S	點選	"Save and	d Compile "					Output Regist 🔺 Output Regist
		Properties									Output Regist
											Output Regist Output Regist
4		Import								···· [Input Register
		Export								[Input Register
		Consistency Check	Ctrl+Alt+K								Input Register
		Check CiR Compatibility	Ctrl+Alt+F							····· [Input Register
										I	Input Register 🗐
		Print	Ctrl+P								Input Register
		Print Preview						Ψ.			Input Register
•		Page Setup					 •			···· Î	Input Register
		1 S7 Pro2\SIMATIC 300 Station								I	Input Register
		2 S7 Dro 1) SIMATIC 200 Station				1					Input Register
2		2 S7_Pro1\SIMATIC SOU Station		Address	Q Address	Comment	 	_		<u> </u>	Input Register 👻
		3 S7_Pro4\SIMATIC 300 Station		7	02			<u> </u>			
		4 S7_Pro3\SIMATIC 300 Station									<u> </u>
Z		Exit	Alt+F4					Ŧ			
Save	es an	d creates all system data in the curre	ent station.								Chg //

요. 요. HW	HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2]										
		3	Download Upload Download Module Ident Upload Module Identifie Faulty Modules Module Information Operating Mode Clear/Reset Set Time of Day Monitor/Modify Update Firmware Save Device Name to M	tification ation to PG	Ctrl+ Ctrl+ Ctrl	·D +I	點選"Download to PLC"		Find: Profile:	7552 Standard	Output Regist Output Regist Output Regist Output Regist Output Regist Output Regist Output Register Input Register Input Register Input Register Input Register Input Register Input Register Input Register Input Register Input Register
•						+		- F			Input Register Input Register
$\frac{1}{\frac{2}{3}}$	(6) GW-7552 DP ID 24DO <i>32DI</i> 5AI	System > Sys Input R	Save Service Data setting tem setting Register5 word	0 <i>3</i> 256265	02		ment				Input Register Input Register Input Register F

Loads the current station into the load memory of the current module.

Chg //



PLC 從Modbus mast	er 接收 AO 資料	
HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2] Station Edit Insert PLC View Options Window Help Station Edit Insert PLC View Options Window Help Station UR 1 200 UR 1 22 DP 22 DP 22 DF CPU313 C-2 DP(1) X2 DP 2.2 DF CPU313 C-2 DP(1) 3 COUNT 3 COUNT 3 COUNT 4 COUNT 6 GO GW-75 6 GO GW-75 6 COUNT	Image: Symbol Display format Status value Modify value 1 PIW 256 HEX W#16#0000 2 PIW 258 HEX W#16#0000 4 PIW 252 HEX W#16#0000 5 PIW 264 HEX W#16#0000	
(6) GW-7552 Slot DP ID Order Number / Designation I Address Q Address Comme 1 24DO System setting 02 2 32DI> System setting 02 3 5AI Input Register5 word 256265	S7_Pro2\SIMATIC 300 Station\\S7 Program(1)	

連線測試

確認 GW-7552的Comport設定 與 Modbus Master Tool相同

(ex: MBRTU, MBRTU 下載: <u>http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus/modbus_utility/</u>)

合

Com Port Settings: baud rate-115200, data bits-8, stop bits-1, parity-none



PLC 從Modbus master 接收 AO 資料

S MBRTU V. 1.0.9 COM1			8 .v	ar - [VAT_1	L @S7_Pro2\SIMATI	C 300 Stati	- • ×
COM Status COM1 115200 Line control : N,8,1 Protocol Descrip FC16 Write multiple reg [Request] Byte 0: Net ID (St Dyte 1: FC=10 (h) Byte 2-3: Referen	otion jisters (4xxxx) for AO tation number) nex) ice number		Wind P	Table Ed dow Help D 2	it Insert PLC Vari	able View C	Deptions
Open Close Byte 4 5: Word or Byte 6: Byte cou	int (B=2 x word count)	-	1	Adduess PIW 256	Symbol Display format HEX	Status value W#16#0000	Modify value
Polling Mode (No Waiting) Time out 200 ms Start Stop Timer Mode (Fixed Period) 1.傳送命令以寫入 AO 的值 (0x1122, 0x3344)	ytes) 8 in Packet as) 13 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear Statistics e (Bytes) 8 (Bytes) 8 eceived 1 ng (ms) Average 000	2 3 4 5 6	PIW 258 PIW 260 PIW 262 PIW 264	HEX HEX HEX HEX	W#16#1122 W#16#3344 W#16#0000 W#16#0000	
63100001000204 <u>11223344</u>		Send Command					
Commands Include CRC € 3 10 00 01 00 02 04 11 22 33 44 76 2F 63 10 00 GW-7552 modbus address 99	Besponses	*	S7_Pr	02\SIMATI Use	c 300 Station\\S7 Po er can receive PIW 256'	rogram(1) AO data in ~ PIW 264	1
Clear Lists		Exit Program					



PLC 從Modbus master更新 DI	
Image: HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2] Image: Station Edit Insert PLC View Options Window Help Image: Im	
I I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Find: 7552 Profile: Standard AS-I DP/DP Coupler DP/RS232C Link GW-7552 Universal module System setting Output Relay/Coil1 byte Output Relay/Coil2 byte Output Relay/Coil3 byte Output Relay/Coil5 byte Output Relay/Coil5 byte Output Relay/Coil6 byte Output Relay/Coil7 byte Output Relay/Coil9 byte Output Relay/Coil10 byte Output Relay/Coil10 byte Output Relay/Coil11 byte Output Relay/Coil12 byte Vitput Relay/Coil12 byte Output Relay/Coil12 byte
Press F1 to get help.	Cng //

HW C	Config - [SIMATIC 300 Station (Conf ion Edit Insert PLC View O	iguration) S7_F ptions Windov	ro2] Help		
2	New	Ctrl+N	₩?		
5	Open Open ONLINE Close	Ctrl+O			Find: 7552 Mt M
	Save Save and Compile Properties	點選"Sa	ve and Compile "		AS-I DP/DP Coupler DP/RS232C Link
<u> </u>	Import Export				Universal module System setting Output Relay/Coil1 byte
	Consistency Check Check CiR Compatibility	Ctrl+Alt+K Ctrl+Alt+F			Output Relay/Coil2 byte Output Relay/Coil3 byte Output Relay/Coil4 byte Output Relay/Coil5 byte
[Print Print Preview Page Setup	Ctrl+P			Output Relay/Coil6 byte Output Relay/Coil7 byte Output Relay/Coil8 byte Output Relay/Coil8 byte Output Relay/Coil9 byte
	1 S7_Pro2\SIMATIC 300 Station 2 S7_Pro1\SIMATIC 300 Station 3 S7_Pro4\SIMATIC 300 Station 4 S7 Pro3\SIMATIC 300 Station		Address Q Address Comment 02 .3	^	Output Relay/Coil10 byte Output Relay/Coil11 byte Output Relay/Coil12 byte
2	Exit	Alt+F4	36		





PLC 從Modbus master更新	新 DI	
I HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2] Station Edit Insert PLC View Options Window Help I I I I I I I I I I I I I I I I I I I	• [VAT_1 @S7_Pro2\SIMATIC 300 Stati, ble Edit ble Edit Insert PLC Variable View Options W Help Image: Symbol Display format Status value Modify value Address Symbol Display format Status value Modify value B#16#00 QB HEX B#16#00 QB HEX B#16#00 QB HEX B#16#00	
Image: Constraint of the second se	SIMATIC 300 Station\\S7 Program(1)	- T <u></u>
Press F1 to get Help.		1.



確認 GW-7552的Comport設定 與 Modbus Master Tool相同

(ex: MBRTU, MBRTU 下載: <u>http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus/modbus_utility/</u>)

 \square

Com Port Settings: baud rate-2400, data bits-8, stop bits-1, parity-none

S MBRTU V. 1.0.9 COM1	
COM Status	Protocol Description FC2 Read multiple input discretes (1xxxx) for DI
115200 Line control : N,8,1 Open Close	[Request] Byte 0: Net ID (Station number) Byte 1: FC=02 Byte 2-3: Reference number Byte 4-5: Bit count
Polling Mode (No Waiting) Time out 200 ms Start Stop Timer Mode (Fixed Period) Interval 50 ms Start Stop Command	Statistics Clear Statistics Commands Difference Responses Current Packet Size (Bytes) 8 O Total Packet Size (Bytes) 0 O Packet Quantity Sent 0 0 Polling or Timer Mode (Date/Time) Polling Mode Timing (ms) Start Time Time Start Stop Time Time Stop
140001	Send Command
Commands 🔽	Include CRC Responses
	Clear Lists Exit Program



COM Status Protocol Description Image: Commands FC2 Read multiple input discretes (1xxxx) for DI 115200 Byte 0: Net D (Station number) Byte 0: Net D (Station number) 2.點選 "Modify variable " 按鈕 Byte 1: FC=02 Byte 2: FC=02 Byte 3: Bt/crown Byte 4: Bt/crown Byte 4: Bt/crown Commands Difference Current Packet Size (Bytes) B Boont Commands Current Packet Size (Bytes) B Boont Statt Size Statt Size Statt Size Byte 3: Deling Mode Timing (ms) Statt Size Byte 3: Commands Time Mode (Date/Time) Statt Size Statt Time Statt Size Statt Time St	MBRTU V. 1.0.9 COM1				M Z	Var - N	(AT 1 @	S7 Dro 2\SIM	ATIC 300 Stati		SZ.
Commands V Interval Stati	COM Status	Protocol Description FC2 Read multiple input discretes (1xxxx) for	DI	-		Table indow	Edit In Help	sert PLC V	ariable View	Options	
Byte 2-3: Reference number Byte 4-5: Bit count Byte 4-5: Bit count Bit count Bit count Poling Mode (No Waing) Timeout 200 ms Statistics Clear Statistics Commands Commands Difference In Packet Size (Bytes) 8 Difference In Packet Size (Bytes) 8 Bit GMD Statt Stop Total Packet Size (Bytes) 8 Difference In Packet Size (Bytes) 8 Bit GMD Timer Mode (Fixed Period) Interval 50 ms Packet Quantity Set 1 Packet Quantity Receive 1 Bit GMD Statt Stop Max 000 Average Min 100 O Average Statt Stop Stop Stato 000 00 20 Send Command Stato 000 00 20 Commands Include CRC Responses Sig 20 00 00 00 20 Timer Mode (Date/Time) Stato Stato 000 00 00 00 00 00 00 00 00 00 00 00 0	115200	[Request] Byte 0: Net ID (Station number) Byte 1: FC=02	2.點選 "Modify var	iable " 按斜	- −	¤ □ & 4		5) <u>X</u> (16) 1 <i>116</i> 7	<u>8</u> ⊳∝)		?
Polling Mode (No Waiting) Statistics Clear Statistics Time out 200 ms Commands Difference Start Stop Stop B#16#00 B#16#00 Timer Mode (Fixed Period) Packet Quantity Sent 1 0 Packet Quantity Received 1 Polling or Timer Mode (Date/Time) Packet Quantity Received 1 1.定義 QB3~QB6 的信 Start Start Start Start Start Start Start Start Start Time Mode (Date/Time) Polling Mode Timing (ms) Average 1.定義 QB3~QB6 的信 63 02 00 00 00 20 Send Commands Include CRC Responses Send Command Statistics Statistics	Open Close	Byte 2-3: Reference number Byte 4-5: Bit count		-	1	Addue QB QB	ss Symbol 3 4	Display format HEX HEX	Status value B#16#00 B#16#00	B#16#AA B#16#BB	-
Start Stop Total Packet Size (Bytes) 8 Quantity Total Packet Size (Bytes) 9 Timer Mode (Fixed Period) Packet Quantity Sent 1 0 Packet Quantity Received 1 Interval 50 ms Poling or Timer Mode (Date/Time) Poling Mode Timing (ms) 1	Polling Mode (No Waiting) Timeout 200 ms	Commands Current Packet Size (Bytes) 8 Differe	Responses ence current Packet Size (Bytes)	stics	3 4 5	QB QB	5	HEX HEX	B#16#00 B#16#00	B#16#CC B#16#DD	1
Start Start Time Time Start Max 000 Average 3.送出Modbus命令讀取DI 的值 Stop Min 100 000 63 02 00 00 00 20 Send Command S7_Pro2\SIMATIC 300 Station\\S7 Program(1) Commands ✓ Include CRC Besponses S3 02 00 00 00 20 71 90 63 02 04 00 00 00 00 B8 24 4.收到回應資料 User can refresh DI value in QB 3~ QB 6 QB 3~ QB 6	Start Stop Timer Mode (Fixed Period) Inter rel	Total Packet Size (Bytes) 8 Quanti Packet Quantity Sent 1 0	Total Packet Size (Bytes) Packet Quantity Received	9			1	1.定	義 QB3~	QB6 的值	
63 02 00 00 02 0 Send Command Commands ✓ Include CRC Responses 63 02 00 00 00 20 71 90 63 02 04 00 00 00 0B8 24 4.收到回應資料 User can refresh DI value in QB 3~ QB 6 Clear Lists Exit Program	Start Stop	Start Time Time Start Stop	Max 000 Average Min 100 0	je)0							
63 02 00 00 00 20 71 90 4.收到回應資料 User can refresh DI value in QB 3~ QB 6	63 02 00 00 00 20 Commands 🔽	Include CRC	Send (Command	\$7.	_Pro2\SII	MATIC 300) Station\\S7	⁷ Program(1)		٥
Clear Lists Exit Program	63 02 00 00 00 20 71 90	63 02 04 00 00 00 B8 24	4.收到回應資料	*			User	can refre QI	sh DI valı B 3~ QB 6	ue in	
		Clear Lists	Exit Progra	m							



PLC 從Modbus master 更新AI	
k HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2] M Station Edit Insert PLC View Options Window Help D 🛩 🗣 🗣 🙀 🚳 🔹 🗈 வ வே 👔 🖘 ன 20 88 №	
■ CPU313 C-2 DP(1) 2 2 2 2 2 2 2 2 2 2 2 2 2	Find: 7552 Profile: Standard Profile: Standard Output Register4 word Output Register5 word Output Register5 word Output Register6 word Output Register7 word Output Register7 word Output Register9 word Output Register9 word Output Register10 word Output Register11 word Output Register12 word Output Register13 word Output Register14 word Output Register15 word Output Register15 word Output Register16 word
Image: Constraint of the sector of the se	Output Register17 word Output Register18 word Output Register19 word Output Register20 word Output Register21 word

u No Stat	Config - [SIMATIC 300 Station (Conf ion Edit Insert PLC View O	iguration) S7_P ptions Window	ro2] Help					
C	New	Ctrl+N	₩ ?					
Ð	Open Open ONLINE Close	Ctrl+O			* II	<u>F</u> ind: <u>P</u> rofile:	7552 Standard	- I X M1 M1 V
	Save Save and Compile	點選"Sav	ve and Compile "				utput Register4 won utput Register5 won utput Register6 won	d Â d
	Properties Import Export						utput Register7 won utput Register8 won utput Register9 won utput Register10 wo	d d urd =
	Consistency Check Check CiR Compatibility	Ctrl+Alt+K Ctrl+Alt+F					utput Register11 wo utput Register12 wo utput Register13 wo utput Register14 wo	rd ord ord ord
• [Print Print Preview Page Setup	Ctrl+P			+		utput Register15 wo utput Register16 wo utput Register17 wo utput Register18 wo	rd ord ord ord
	1 S7_Pro2\SIMATIC 300 Station 2 S7_Pro1\SIMATIC 300 Station 3 S7_Pro4\SIMATIC 300 Station 4 S7_Pro3\SIMATIC 300 Station		Address Q Address Con 02 .3 256271	mment			utput Register19 wo utput Register20 wo utput Register21 wo	nd nd nd , ▶ ₹ <u>₹</u>
2	Exit	Alt+F4			-			

Saves and creates all system data in the current station.

Chg //



Loads the current station into the load memory of the current module.





🖳 HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2]	
💵 Station Edit Insert PLC View Options Window Help	Var - [VAT_1 @S7_Pro2\SIMATIC 300 Stati 🖃 🔳 🔀
D 😅 🗤 🖩 🗣 🛛 🖴 🛛 🛍 💼 🕼 📼 🚯 💽 📼 🖓 💦	Image: Table Edit Insert PLC Variable View Options Window Help
□ <u>1</u> <u>1</u> . <u>輸入</u> 所對應PROFIBUS的位址	
2 <i>X2</i> DP E Puser 2.點選"Monitor" 按鈕	Adduess Symbol Display format Status value Modify value
2.2 DI16/D016	1 PQW 256 HEX 😹
2.4 Count	2 PQW 258 HEX
3 4 -	3 PQW 260 HEX
<u>-</u>	4 PQW 262 HEX 😹
	5 PQW 264 HEX 😹
👗 (6) G W-75!	6 PQW 266 HEX 🙀
	7 PQW 268 HEX 🙀
	8 POW 270 HEX 😹
TAUGUST	9
✓	
▲ (6) GW-7552	
Slot DP ID Order Number / Designation I Address Q Address Comment	S7_Pro2\SIMATIC 300 Station\\S7 Program(1)
$\frac{1}{2}$ $\frac{32DI}{32DI}$ $\xrightarrow{> System setting}$ 02	
3 8AO Output Register8 word 256271	<u> </u>
4	
Press F1 to get Help.	Chg



確認 GW-7552的Comport設定 與 Modbus Master Tool相同

(ex: MBRTU, MBRTU 下載: <u>http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus/modbus_utility/</u>)

Com Port Settings: baud rate-115200, data bits-8, stop bits-1, parity-none

SH MBRTU V. 1.0.9 COM1	
COM Status	Protocol Description FC4 Read multiple input registers (3xxxx) for Al [Request] Byte 0: Net ID (Station number) Byte 1: FC=04 Byte 2-3: Reference number Byte 4-5: Word count
Polling Mode (No Waiting) Timeout 200 ms Start Stop Timer Mode (Fixed Period) Interval 50 ms Start Stop Command	Statistics Clear Statistics Commands Difference Responses Current Packet Size (Bytes) 0 Difference Total Packet Size (Bytes) 0 O Packet Quantity Sent 0 O Polling or Timer Mode (Date/Time) Polling Mode Timing (ms) Start Time Time Start Stop Time Time Stop
140001	Send Command
Commands 🔽	Include CRC Responses
	Clear Lists Exit Program



MBRTU V. 1.0.9 COM1	• 🔀	1	Var - [VAT_1	@S7_Pro2		300 Stati.	
COM Status Protocol Description		1	Table Edit	t Insert Pl	LC Varial	ble View	Options
COM1 FC4 Read multiple input registers (3xxxx) for Al	-	Wir	ndow Help			4 4	_ = = ×
I15200 Request]	*	-¤		3 3 4		n 🖂 🕽	X 📲 🖁 🕅 🖓
Line control: N,8,1 Byte 1: FC=04 2.點擊 "Modify variab Byte 2-3: Reference number	le"按鈕	ł 🖉		1.定義 P	QW 25	6~ PQV	V 260 的值
Open Close Byte 4-5: Word count	Ŧ	1	Adduess PQW 256	Symbol Disj HE	play format X 🍰	Status value	Modify value
Polling Mode (No Waiting) Statistics		2	PQW 258	HE	X 💧	M(₩ ₩#16#2323
Timeout 200 ms Commands Responses		3	PQW 260	HE	X 🁌	M	💓 ₩#16#4444
Current Packet Size (Bytes) 8 Difference Current Packet Size (Bytes)	21	4	PQW 262	HE	X 🍦	M.	₩ ₩#16#5555
Start Stop Total Packet Size (Bytes) 8 Quantity Total Packet Size (Bytes)	21	5	PQW 264	HE	¢ X	×	₩ ₩#16#6666
Timer Mode (Fixed Period) Packet Quantity Sent 1 Packet Quantity Received	1	6	PQW 266	HE	X 🁌	M(₩ #16#7777
Interval 50 ms Polling or Timer Mode (Date/Time) Polling Mode Timing (ms)		7	PQW 268	HE	X 👌	M.	₩ ₩16#ABFA
Start Time Time Start Max 000 Average		8	PQW 270	HE	X 👌	M	₩ ₩#16#0FFF
3.送出Modbus命令讀取AI值 Stop Min 100 000		9					
63 04 00 00 08	mmand						
Commands 🔽 Include CRC Besponses	_						
63 04 00 00 00 08 F9 8E	2	S7_P	Pro2\SIMATIO	C 300 Station	n//S7 Pro	gram(1)	Ø
4.收到回應			Use	er can ref	^f resh Al	l value	in
				PIW	/ 256~	PIW 26	0
	$\overline{\mathbf{v}}$					-	
Clear Lists Exit Program							