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

- Before Connecting
- Example 1: Receives DO data from Modbus master
- Example 2: Refreshes DI data from Modbus master
- Example 3: Receives AO data from Modbus master
- Example 4: Refreshes AI data from Modbus master



#### Set the parameters of device as shown as below



#### 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



#### Add a profibus master system and a profibus slave (GW-7552)



#### Set the address of PLC in profibus as below





## Set the address of GW-7552 as below



# 

## Set Gw-7552 comport setting as below

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	16	Pco	ñ ,	
	G	W-755		
ン				
		*****	08.861	1

Baudrate:115200Data bit: 8

Comport Settings:

- Stop bit : 1
- Parity: None
- Byte order: Big Endian
- Output Data Mode : Auto
- Modbus Device ID (S) :99
- Double click GW7552 icon
   Click Parameter Assignment
   Change
- Modbus Type : Slave Byte order: big Endian Output Data Mode : Auto Modbus Device ID: 99 4.Click "OK"

You can change parameters here

-	General Parameter Assignment	
BUS(1): DP master system	Parameters         □       Station parameters         □       Device-specific parameters         □       Data         □       Data         □       Data         □       Modbus Type         □       Modbus Format         □       I/O Safe Mode         □       Byte Order         □       Output Data Mode         □       Modbus Device ID (S)         □       Modbus Polling 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
		500

## 

### Make sure the switch of the GW-7552 is at Normal mode.

#### Refer to GW-7552 user manual 2.6





Setup the address by the DIP switch to set GW-7552's address as **6** in PROFIBUS

Refer to GW-7552 user manual 2.4



Figure 12: DIP switch







<b>0</b> 2	HW Config - [SIMATIC 300 Station (Confi	guration) S7_P	o2]			
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[	Open ONLINE Close	Ctn+O	ter system (1)	* E	<u>F</u> ind: 7. Profile: S	552 <u>M1 M4</u> tandard <b>V</b>
	Save Save and Compile Properties Import Export Consistency Check Check CiP. Commentibility	Ctrl+Alt+K	d Compile			Output Relay/ Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C
< [	Print Print Preview Page Setup 1 S7_Pro2\SIMATIC 300 Station 2 S7_Pro1\SIMATIC 300 Station	Ctrl+P Ctrl+P		•		Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C
	3 S7_Pro4\SIMATIC 300 Station 4 S7_Pro3\SIMATIC 300 Station Exit	Alt+F4	Address Q Address Comment O2			
Save	es and creates all system data in the curre	ent station.				Chg //

🖳 HW Config - [SIMATIC 3	00 Station (Configuration) S7_Pro2	2]				- • •
💵 Station Edit Insert	PLC View Options Window	Help				_ 8 ×
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3 4	Faulty Modules					Standard 💌
	Module Information	Ctrl+D				Input Relay/C
	Operating Mode Clear/Reset Set Time of Day Monitor/Modify	Ctrl+I				Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C Input Relay/C
	Update Firmware					Input Relay/C
	Save Device Name to Memory	/ Card				Input Relay/C Input Relay/C
4	Ethernet	•				Input Relay/C
(6) G₩-7552	PROFIBUS	•				Input Relay/C Input Relay/C
	Save Service Data					Input Relay/C -
1 24DO S	ystem setting	02	nie111			4
2 32DI	-> <i>System setting</i> 03 nput Relay/Coil10 byte 413					٤
4						

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

Chg 🏿 🎢



PLC Receives DO from Mod	lbus master
Image: HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2]   Image: Station Edit Insert PLC View Options Window Help   Image: Station Edit Insert PLC View Option Edit Insert PLC View Options Window Help   Image: Station Edit Insert PLC View Option Edit Ins	Image: Second state sta
(6) GW-7552         Slot       DP ID       Order Number / Designation       I Address       Q Address       Comment         1       24DO       System setting       02       02         2       32DI      > System setting       02         3       25       Input Relay/Coil10 byte       413	10 B 13 HEX y/C 11 y/C y/C y/C y/C y/C y/C y/C y/C y/C y/C

Press F1 to get Help.

Chg //

#### **Communication test**

#### Confirm the GW-7552's Com Port setting is the same with Modbus Master tool

(ex: MBRTU, you can download MBRTU from <a href="http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus\_utility/">http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus\_utility/</a>)

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

Confirm the setting of MBRTU is the same with GW-7552's setting







	Va	ır - [	VAT.	_1 @S	7_Pro2\\$	SIMA	TIC 300 Static	n\CPU,	- • •
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2		B	5		HEX		B#16#22		
3		B	6		HEX		B#16#33		
4		B	7		HEX		B#1 <i>6</i> #44		
5		B	8		HEX		B#16#55		
6		B	9		HEX		B#16#66		
7		B	10		HEX		B#1 <i>6</i> #77		
8		B	11		HEX		B#1 <i>6</i> #88		
9		B	12		HEX		B#1 <i>6</i> #99		
10		B	13		HEX		B#16#AA		
11									c
S7_	Pro	2\SI	MA	TIC 300	Station\.	\S7	Program(1)		•

#### User can receive DO data in IB4~IB13





HW Config - [SIMATIC 300 Station (Configuration) -- S7\_Pro2] × Station Edit Insert PLC View Options Window Help 00n \_ & × 🗅 😅 🖫 🖷 🖏 🎒 📑 💼 💼 🖬 🎰 📳 📼 🞇 📢 ۰ 미지 🗩 (0) UR = 7552 Find: mt mi Profile: Standard CPU313 C-2 DP(1) 2 Ŧ XZ DPBUS(1): DP master system (1) Output Regist 🔺 2.2 DI16/D016 Output Regist 2.4 Count Output Regist 3 (1)Select GW-7552 module Output Regist (2) Double click 4 Output Regist 1. "System setting module" Input Register 2. "Input Register - - 5 word" Input Register Input Register 👗 (6) G W-7. Input Register Input Register Input Register 🗏 Input Register Input Register Input Register ₹. 111 Input Register Input Register (6) GW-7552 Input Register Input Register 👻 Slot DP ID Order Number / Designation I Address Q Address Comment 111 0...2 24DO System setting 1 2 32DI --> System setting 0...3 ₹< 3 5AI 256...265 Input Register--5 word 4 Chg Press F1 to get Help.

New Open. Open C Close Save Save Save an Proper Import Export Consist Check	 ONLINE Ind Compile Ities	Ctrl+N Ctrl+O Ctrl+S	Save and Comp	ile		Find: Profile:	7552 Standard Output R
Open Open ( Close Save Save an Proper Import Export. Consist Check ( Print	 ONLINE Ind Compile Ities	Ctrl+O Ctrl+S	Save and Comp	ile		Find: Profile:	7552 Standard Output R
Open C Close Save Save at Proper Import Export Consist Check of Print	ONLINE nd Compile ties	Ctrl+S	Save and Comp	ile	E	<u>F</u> ind: <u>P</u> rofile:	7552 Standard Output R
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$\frac{1}{\frac{2}{3}}$	24DO <i>32DI</i> 5AI	System > <i>Sy</i> s Input F	.setting <i>tem setting</i> Register5 word	<i>03</i> 256265	02						III	t <sub>s</sub>
4									_			

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

Chg //



PLC Receives AO from	n Modbus master	
HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2]	Image: Symbol       Display formet       Status value       Modify value         Image: Status value       Modify value       Modify value       Modify value         Image: Status value       Miter       Miter       Miter         Image: Status valu	
(6) GW-7552         Slot       DP ID       Order Number / Designation       I Address       Q Address       Comment         1       24DO       System setting       02       02         2       32DI      > System setting       02         3       5AI       Input Register5 word       256265	S7_Pro2\SIMATIC 300 Station\\S7 Program(1)	۔ خ <u>ر</u>
Press F1 to get Help.		

#### **Communication test**

#### Confirm the GW-7552's Com Port setting is the same with Modbus Master tool

(ex: MBRTU, you can download MBRTU from <a href="http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus\_utility/">http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus\_utility/</a>)

 $\mathbf{A}$ 

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

Confirm the setting of MBRTU is the same with GW-7552's setting





MBRTU V. 1.0.9 COM1	Mar - [VAT_1 @S7_Pro2\SIMATIC 300 Stati
COM Status Protocol Description	Table Edit Insert PLC Variable View Options
COM1 FC16 Write multiple registers (4xxxx) for A0	Window Help
I15200	
Line control : N,8,1 Byte 0: Net ID (Station humber)	<b>∭</b> 66° м⊅ 66° i м² /////
Open     Close     Byte 4-5:     Word count       Byte 6:     Byte count (B=2 x word count)	Address     Symbol     Display format     Status value     Modify value       1     PIW 256     HEX     W#16#0000
Polling Mode (No Waiting) Statistics	2 PIW 258 HEX W#16#1122
Timeout 200 ms Commands	3 PIW 260 HEX W#16#3344
Current Packet Size (Bytes) 8 Difference Current Packet Size (Bytes) 8	4 PIW 262 HEX W#16#0000
Start         Stop         Total Packet Size (Bytes)         13         Quantity         Total Packet Size (Bytes)         8	5 PIW 264 HEX W#16#0000
Timer Mode (Fixed Period) Packet Quantity Sent 1 Packet Quantity Received 1	
1.Send command to write AO value     te/Time)     Polling Mode Timing (ms)       (0x1122,0x3344)     Stop     Max 000     Average	
6310000100020411223344 Send Command	
Commands 🗹 Include CRC Responses	
63 10 00 01 00 02 04 11 22 33 44 76 2F 🔺 63 10 00 01 00 02 18 4A	S7_Pro2\SIMATIC 300 Station\\S7 Program(1)
2.Recived Response	User can receive AO data in
GW-7552 modbus address 09	PIW 256~ PIW 264
Clear Lists Exit Program	





HW Config - [SIMATIC 300 Station (Configuration) -- S7\_Pro2] × 90n Station Edit Insert PLC View Options Window Help \_ 8 × 🗅 😅 🖫 🖷 🖏 🎒 🗎 🛍 💼 🛑 🏙 🎰 📳 📼 👯 📢 ۰. 미지 🗩 (0) UR = 7552 Find: M† Mi 1 Standard Profile: CPU313 C-2 DP(1) 2 Ŧ XZ DPBUS(1): DP master system (1) 📄 AS-I 2.2 DI16/D016 DP/DP Coupler Ξ 2.4 Count DP/RS232C Link (2) Double click 3 F GW-7552 4 1. "System setting module" Universal module System setting 2. "Output Relay/Coil – 4byte" (1)Select GW-7552 module Output Relay/Coil--1 byte Output Relay/Coil--2 byte Output Relay/Coil--3 byte Output Relay/Coil--4 byte Output Relay/Coil--5 byte Output Relay/Coil--6 byte Output Relay/Coil--7 byte Output Relay/Coil--8 byte .€ 111 Output Relay/Coil--9 byte Output Relay/Coil--10 byte (6) GW-7552 Output Relay/Coil--11 byte Output Relay/Coil--12 byte 👻 Slot DP ID Order Number / Designation I Address O Address Comment 111 24DO System setting 0...2 2 32DI --> System setting 0...3 3 32DO Output Relay/Coil--4 byte 3...6 4 Chg Press F1 to get Help.

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1 S7_Pro2\SIMATIC 300 Station					01	utput Relay/Coil10
2 S7 Pro1\SIMATIC 300 Station			. Communit			utput Relay/Coil12
3 S7 Pro4\SIMATIC 300 Station		Address Q Addres	s Comment		- <b>1</b>	
4 S7 Pro3\SIMATIC 300 Station		3			<u> </u>	
4 57_1105 (SIMATIC 500 Station		36				

cing //



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



PLC Refreshes DI from M	odbus master	
Image: HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2]   Image: Station Edit Insert PLC View Options Window Help   Image: Station Edit Insert PLC View Option Edit Insert PLC	Image: Construction of the second state of the second s	
(6) GW-7552 Slot DP ID Order Number / Designation I Address Q Address Comment 1 24DO System setting 02 2 32DI> System setting 03 3 32DO Output Relay/Coil4 byte 36	S7_Pro2\SIMATIC 300 Station\\S7 Program(1)	÷ €<

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#### **Communication test 1**

#### Confirm the GW-7552's Com Port setting is the same with Modbus Master tool

(ex: MBRTU, you can download MBRTU from <a href="http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus/modbus\_utility/">http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus\_utility/</a>)

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

Zee IMBRID V. 1.0.9 COIMI	
COM Status	Protocol Description
COM1 🗨	FC2 Read multiple input discretes (1xxxx) for DI
115200 💌	[Request] A Byte 0: Net ID (Station number)
Line control : N,8,1	Byte 1: FC=02 The second secon
Open Close	Byte 4-5: Bit count
Polling Mode (No Waiting)	Statistics Clear Statistics
Timeout 200 ms	Commands Current Packet Size (Butes)
Start Stop	Total Packet Size (Bytes) 0 Quantity Total Packet Size (Bytes) 0
Timer Mode (Fixed Period)	Packet Quantity Sent 0 Packet Quantity Received 0
Interval 50 ms	Polling or Timer Mode (Date/Time) Polling Mode Timing (ms)
Start Stop	Start Time         Time Start         Max         000         Average           Start Time         Time Start         Min         100         200
Command	
1 4 0 0 0 1	Send Command
Commands 🔽	Include CRC Responses
	<b>v</b>
	Clear Lists Exit Program









HW Config - [SIMATIC 300 Station (Configuration) -- S7\_Pro2] × -----🛄 Station Edit Insert PLC View Options Window Help \_ 8 × 🗅 😅 🖫 🖳 🥞 🛛 🖻 💼 📄 🏜 🏙 📳 📼 🚟 💦 믜푀 ۰ 🗩 (0) UR = 7552 Find: ለ† ለ‡ Standard Profile: CPU313 C-2 DP(1) 2 Ŧ XZ DPBUS(1): DP master system (1) Output Register--4 word 2.2 DI16/DO16 Output Register--5 word 2.4 Count Output Register--6 word (1)Select GW-7552 module (2) Double click 3 Output Register--7 word 4 1. "System setting module" Output Register--8 word Output Register--9 word 2. "Output Register- - 8 word" Output Register--10 word Output Register--11 word 🕁 (6) G W-7! Output Register--12 word Output Register--13 word Output Register--14 word Output Register--15 word Output Register--16 word Output Register--17 word ٠. 111 Output Register--18 word Output Register--19 word (6) GW-7552 Output Register -- 20 word Output Register--21 word I Address O Address Slot DP ID Order Number / Designation Comment 24DO 1 System setting 0...2 111 2 32DI --> System setting 0...3 ₹<u>₹</u> 3 8AO Output Register--8 word 256...271 4 Chg Press F1 to get Help.

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•	Print Print Preview Page Setup	Ctrl+P				-		01 01 01 01	utput Register15 wo utput Register16 wo utput Register17 wo utput Register18 wo	ord ord ord ord	
1.11.1 - 72 - A	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 Ad 02 3 2562	dress 271	Comment	^	•		atput Register19 wo atput Register20 wo atput Register21 wo	ord ord ord	₹ <u>≺</u>
2	Exit	Alt+F4				· ·					

Saves and creates all system data in the current station.

Chg //

ц ни	🖞 HW Config - [SIMATIC 300 Station (Configuration) S7_Pro2]												
🕅 Station Edit Insert PLC View Options Window Help										_	ъ×		
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	2 <b>D</b> P 2 <b>D</b> 116/DC	7,	Faulty Modules									)utput Register4 word	*
2.4	4 🚺 Count		Module Information		Ctrl+	D						Jutput Register5 word Jutput Register6 word	
$\frac{3}{4}$		_	Operating Mode		Ctrl	+I						)utput Register7 word	
4	I	_	Clear/Reset									)utput Register8 word	
			Set Time of Day									)utput Register9 word	
			Set Time of Day								illi C	Jutput Register10 word	
			Monitor/Modify								illi o	Juput Register-11 word	
			Update Firmware									)utput Register13 word	
												)utput Register14 word	·
			Save Device Name to M	emory Card	1							)utput Register15 word	
			Ethernet			•	L.,		-			Jutput Register10 word	
•		11	Ethernet						Þ			)utnut Register18 word	
	- 1		PROFIBUS			•				í		)utput Register19 word	L
- <b>-</b> -	(6) G₩-7552		Concerning Data								- 🚺 🖸	)utput Register20 word	
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1	24DO	System	ı setting		02				<u> </u>	1		······································	F
2	32DI	> Sys	stem setting	03						lí –			٦.
3	8AO	Output	t Register8 word		256271								_7
$\frac{4}{5}$													

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

Chg //





🖳 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 🛩 🗤 🖳 🧠    🖻 🖻    🏜 🏜   🚯 📼   👯   <table-cell></table-cell>	Image: Table Edit Insert PLC Variable View Options         Window Help
⊇(0) UR	
Lick "Monitor" button	
$\frac{2}{\lambda^2} = \frac{DP}{DP} = DUS(1) DD method method (1)$	Adduess Symbol Display format Status value Modify value
2.2 DI16/DO16	1 PQW 256 HEX 66
2.4 Count	2 PQW 258 HEX 🕰
<u></u>	3 PQW 260 HEX
	4 PQW 262 HEX ₫
	5 PQW 264 HEX 💏
(6) GW-75!	6 PQW 266 HEX 64
	7 PQW 268 HEX 64
tiend territ	8 POW 270 HEX 64
	9
(6) G₩-7552	
Slot 🚺 DP ID Order Number / Designation I Address Q A ddress Comment	S7_Pro2\SIMATIC 300 Station\\S7 Program(1)
1 24DO System setting 02	
Z         32D1        > System setting         03           3         8AO         Output Register8 word         256271	
4	
Press F1 to get Help.	Chg //

#### **Communication test 1**

#### Confirm the GW-7552's Com Port setting is the same with Modbus Master tool

(ex: MBRTU, you can download MBRTU from <a href="http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus/modbus\_utility/">http://ftp.icpdas.com.tw/pub/cd/8000cd/napdos/modbus\_utility/</a>)

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

SH MBRIU V. 1.0.9 COM1	
COM Status	Protocol Description
COM1 🔍	FC4 Read multiple input registers (3xxxx) for Al
115200 🖵	[Request] A Ryte 0: Net ID (Station number)
Line control : N,8,1	Byte 1: FC=04
Open Close	Byte 2-5: Word count
Polling Mode (No Waiting)	Statistics Clear Statistics
Timeout 200 ms	
Start Stop	Total Packet Size (Bytes) 8 in Packet Size (Bytes) 9
Timer Mode (Fixed Period)	Packet Quantity Sent 0 0 Packet Quantity Received 0
Interval 50 ms	- Polling or Timer Mode (Date/Time)
Shart Share	Start Time Time Start Max 000 Average
Star	Stop Time Time Stop Min 100 000
Command	
140001	Send Command
Commands 💌	Include CRC Responses
	Clear Lists Exit Program

**PLC Refreshes AI from Modbus master** 



