GW-7553 (Modbus RTU Master) Example for SIMATIC STEP 7(TIA Portal)

- Before Connecting
- Example 1:Reads and Writes DO module data
- Example 2:Reads DI module data
- Example 3:Reads and Writes AO module data
- Example 4:Reads AI module data

Before connecting

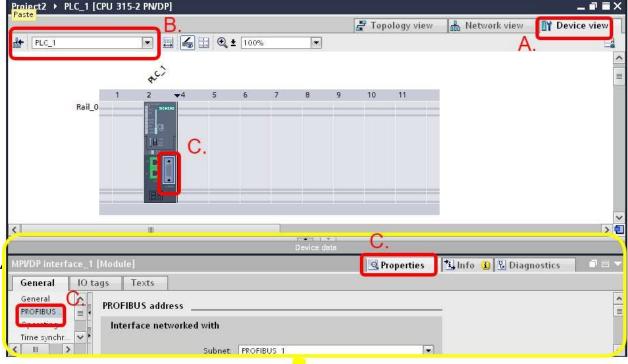
• Add a PROFIBUS master system and a PROFIBUS slave (GW-7553)

		📑 Topology view 🔒 Network view	Y Device viev
letwork Connections HMI_connection	🔽 📲 🗮 🔍 ± 100%		
		Slave_1	
CPU 315-2 PN/DP		GW-7553(DPV1) DP-NORM	

Set the address of PLC as below

- (A) Click "Device view"
- (B) Select "PLC_1" (Which PLC you connect to GW-7553)
- (C) Click "Properties" and "PROFIBUS address"
- (D) Set "interface type"=PROFIBUS and set

"Address"=2



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	Tran	mission speed: 1.5 Mb	ps 💌		
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Set GW-7553 comport setting as below

- (A) Select "Slave_1" (Select the slave which is GW-7553)
- (B) Select "Properties" and "Device-specific"
- (C) Set comport :
 - Buad rate: 115200 baud
 - Parity: None
 - Data bit: 8
 - Stop bit: 1
 - Byte order: Big Endian
 - Output Data Mode: Auto

roject2 → PLC_1 [CPU 315	5-2 PN/DP] → Distr	ibuted	VO 🕨 DP	-Masters	ystem (1): PROF	IBUS_1 → Slave_1	- 🗖 🗖	>
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PROFIBUS B	1	parity:	none					
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Device-sp		op bit	1 stop bit					

Properties	Select 20011 lactor			H
Slave_1 [Module]	<u>9</u> P	roperties	🤨 Info 🔒	Diagnostics
General 10 tags Texts				
General FROFIBUS ad General DP p			-C.	
Device-specificbaud rate:	115200 baud	-		
Hex parameter	none			
SYNC/FREEZE data	8 data bit		-	
Diagnostics a stop bit	1 stop bit	-	-	
• Nodbus Type:	Master		-	
- Modbus Format	Modbus RTU	-	-	
- I/O Safe Mode:	Retain Last Value	-	-	
Byte Order.	Big Endian(Motorola format)			
Output Data Mode:	Auto	-	-	
Modbus Device ID (S)	1			
Modbus Polling Interval(ms) (M):	500			
Cuery timeout Value(ms)(hl):	500			

Set the address of GW-7553 as below

(A) Click "Properties" and "PROFIBUS address"

(B) Set "Address"=3

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Device overview									
🕎 Module	Rack	Slot	I address	Q addr	Туре	Order n	10.	Firmware	Comment
Slave_1	0	0	2043*		GW-7552			V1.90	
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PROFIBUS	Highest ac	ddress: [126	-					
General D	Transmission :	speed:	1.5 Mbps	-					
Device-sp V		10 At	14	-tt2					

Properties				7.0	teach.
Slave_1 [Module]			🔍 Properties	📜 Info 🔒	Diagnostics
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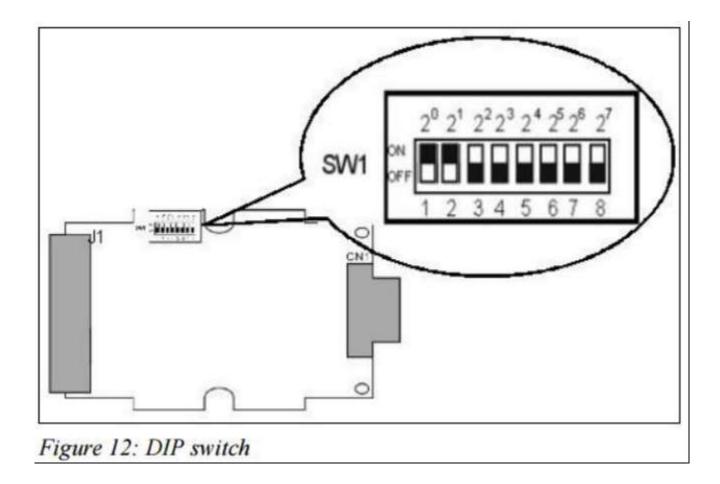
Before connecting

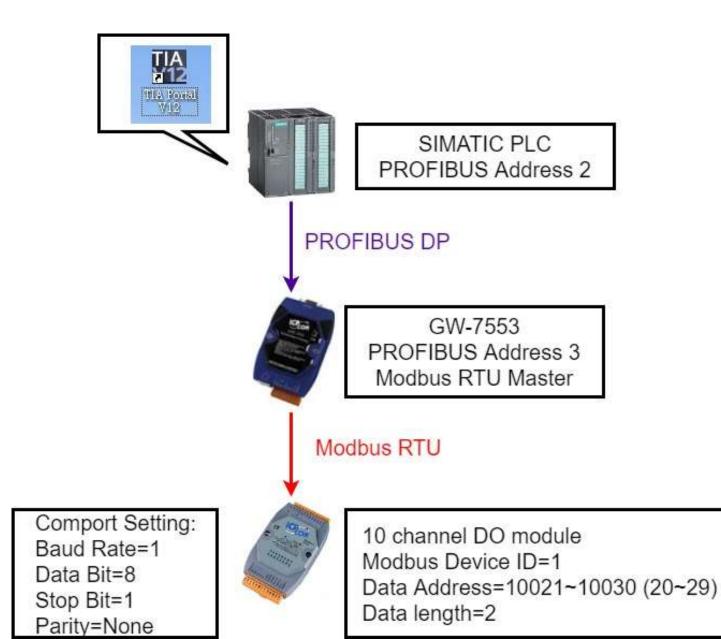
- Make sure the switch of the GW-7553 is at Normal mode
- Refer to GW7553 user manual 2.6



Before connecting

- Setup the address by the DIP switch to set GW-7553's address as 3 in PROFIBUS
- Refer to GW-7553 user manual 2.4





					1. Click "Device view"						
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- 3	0	2043*		and the second		V1.90	^	Universal module			
	1		02					System setting			
				- III (2)				🚺 Output Relay/Coil–1 byte			
	3	67		and the second sec			-	Output Relay/Coil-2 byte			
0	4		34	Output Relay/Coil				Uutput Relay/Coil–3 byte			
0	5			3. D	ouble Click:	←		Uutput Relay/Coil-4 byte			
0	6							Output Relay/Coil–5 byte			
0	7							Output Relay/Coil=6 byte			
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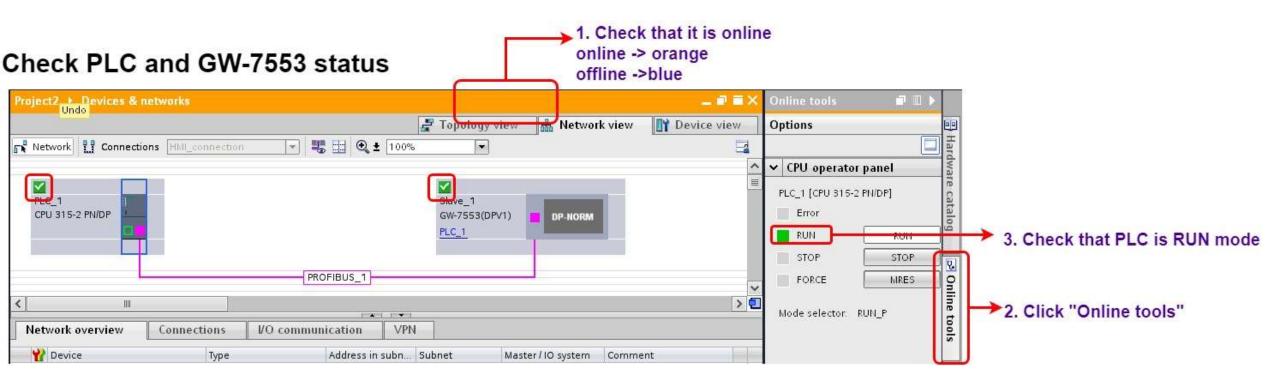
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Device overview				©] ♥				
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Output Relay/Coil-2 byte_1	0	4		34	Output Relay/Coil	1		
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System setting_2_1	0	1		02	System setting			=
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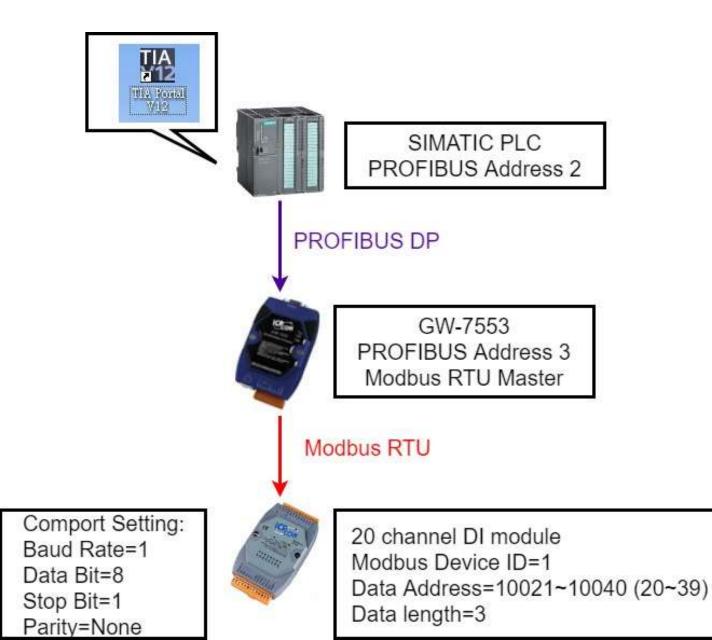
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Devices	a	1 10 9. 9. 2	<u> </u>							
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and double click "A	dd ne	w watch table'		Module		Rack	Slot	l address	Q addr	1
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				System setting	_2_1	0	1		D2	
				System setting	_2_2	0	2	05	*	
				Input Relay/Coil	-2 byte_1	0	3	67		
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Modify values and Send Modbus commands

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i Hame	Address	Display format	Monitor value	Modify value	Comment	Terrare stat					
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No devices with	h problems					- 00029 = 0					

Modify values and Send Modbus commands

%QB3 Hex 16#29 16#29 Image: Constraint of the c	Address	Dis	splay format	Mo	nitor value	Modify value	9	Comment
MB6 Hex 16#29 MB7 Hex 16#02 Add news Type Read/Write Modbus Address value QB3 Write DO 20~27(00021~00028) 0x29 QB4 Write DO 28~29(00029~00030) 0x02 IB6 Read DO 20~27(00021~00028) 0x29	%QB3	He	ex	16	#29	16#29		
WIB7 Hex 16#02 Add news Type Read/Write Modbus Address value QB3 Write DO 20~27(00021~00028) 0x29 QB4 Write DO 28~29(00029~00030) 0x02 IB6 Read DO 20~27(00021~00028) 0x29	%QB4	He	x	16	#02	16#02	🗹 🔔	
Kedd news Type Read/Write Modbus Address value QB3 Write DO 20~27(00021~00028) 0x29 QB4 Write DO 28~29(00029~00030) 0x02 IB6 Read DO 20~27(00021~00028) 0x29	%IB6	He	x [▼ 16	#29			
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IB6 Read DO 20~27(00021~00028) 0x29		QB3	Write D	0	20~27(0	0021~00028)) 0x29	
		QB4	Write D	0	28~29(0	0029~00030) 0x02	
IB7 Read DO 28~29(00029~00030) 0x02		IB6	Read D	0	20~27(0	0021~00028) 0x29	
		IB7	Read D	0	28~29(0	0029~00030) 0x02	
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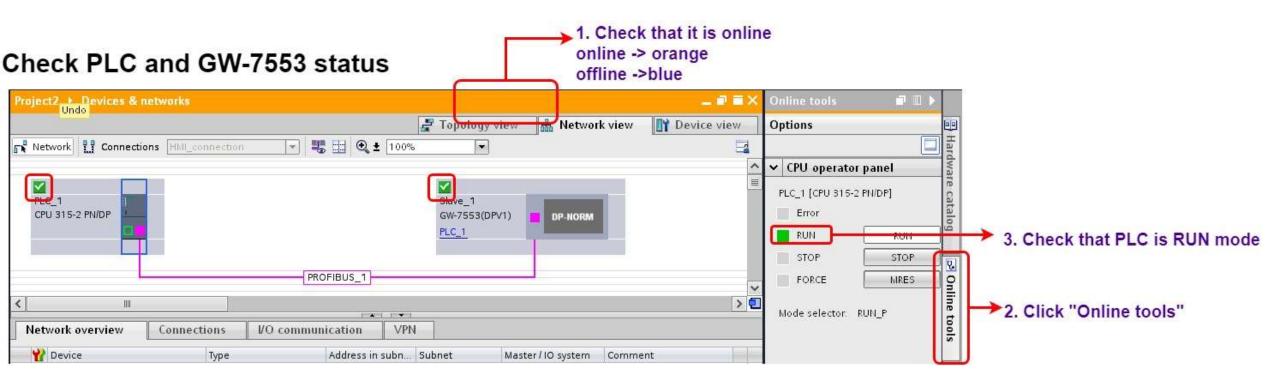
2. Select GW-7553

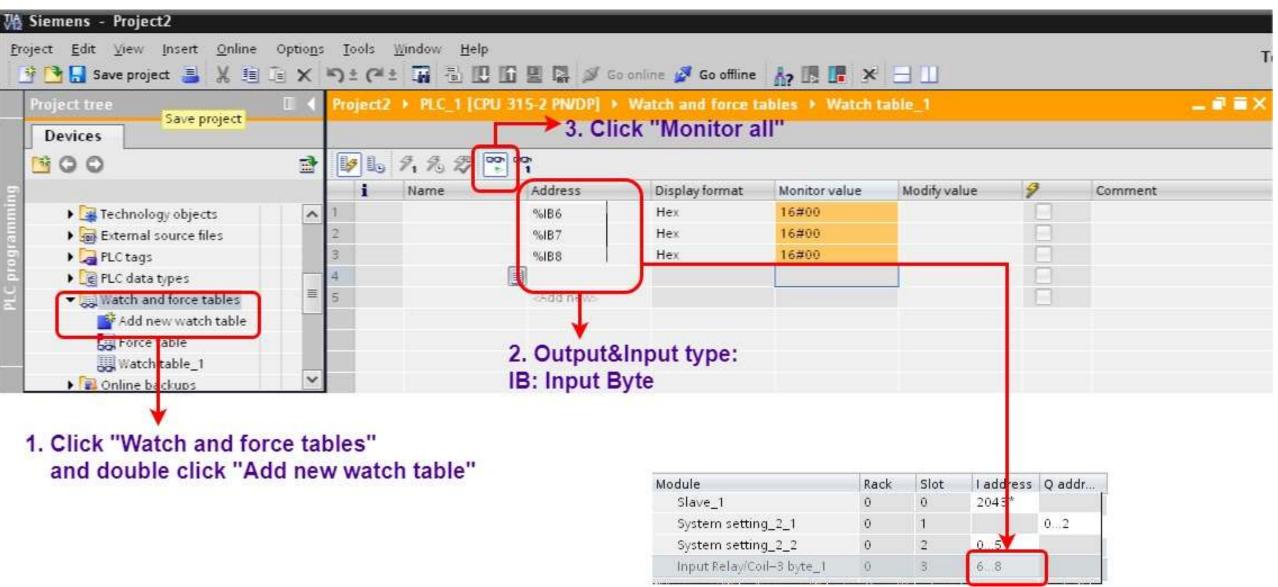
1. Click "Device view"

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PLC_1 [CPU 315-2 PN/DI	P] → Dis	tributed	VO DP	-Masters	ystem (1): PROFIBI	JS_1 → Slave_1		=×	Hardware catalog 🛛 🗊 🔳
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Slave_1	0	0	2043*	Q dddi	GW-7553(DPV1)	order no.	V1.90	~	Output Relay/Coil-29 byte
System setting_2_1	0	1		02	System setting			=	Output Relay/Coil=30 byte
System setting_2_2	0	2	05		System setting				Output Relay/Coil-31 byte
Input Relay/Coil+3 byte_1	0	3	68		Input Relay/Coil–3				Output Relay/Coil-32 byte
	Ó	4							Input Relay/Coil–1 byte
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	0	6							
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Project	2 → PLC_1 [CPU 315-2 PN/I	DP] → Di	stributed	IVO → DI	P-Masters	system (1): PROFIBU	S_1 → Slave_1		Ξ×	
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Devie	e overview			- Fa	•					
- 	. Module	Rack	Slot	laddress	Q addr	Туре	Order no.	Firmware	11	
	Slave_1	0	0	2043*		GW-7553(DPV1)		V1.90	~	
	System setting_2_1	0	1		02	System setting			=	
	System setting_2_2	0	2	05		System setting				
	Input Relay/Coil-3 byte_1	0	3	68		Input Relay/Coil–3			-	
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1 CI	ick "Input Relay/C	oil-Shy	te"							Properties
1.01	ion input neidy/o	0	8							Input Relay/Coil=3 byte_1 [Module]
		0	9							
(4.0		101	1			>	General IO tags Texts
	elay/Coil–3 byte_1 [Module	1				🔍 Properties 📩	Info 🕕 🎚 Diagno	stics		General Device-specific parameters 4. Set module parameter as shown
Gene					<u> </u>					Hex parameter
-										I/O addresses Modbus Slave Device ID (M): 1
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Hex p		Device	e-spec	ific"						NO. of Relay/Coil (M): 20 BITS
		Slave Devic	ce ID (M):	1						Module Type (M): Read DI
<	>		here (hd):						~	income type (in) incode i

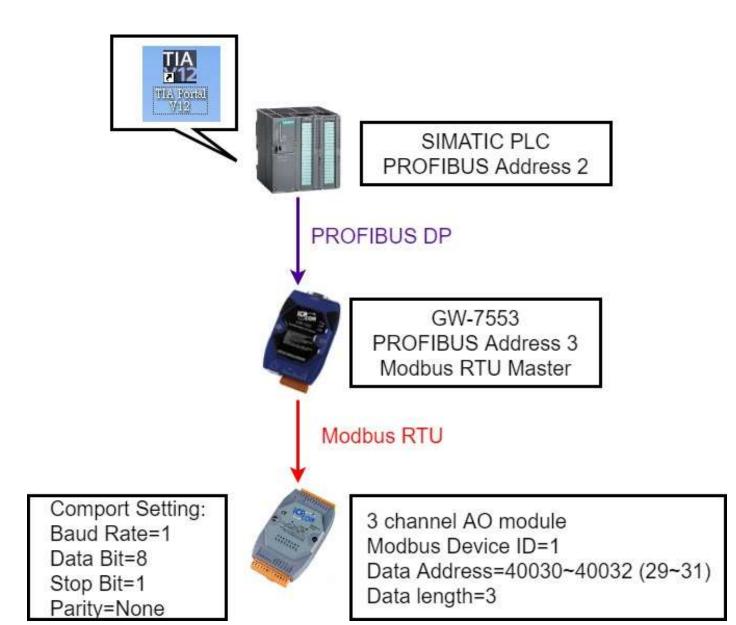






Modify values and Send Modbus commands

Address	Disp	lay format	Monit	or value	Modify value	9	Comment	Low mounter
6IB6	Hex		16#4	2				ID = 1 0x42
6IB7	Hex		16#4			-		0442
%IB8 ∕Add new>	Hex		16#0	4				00020 = 0 00030 = 0
odd (fews							-	00021 = 1 $00031 = 0$
	Туре	Read/W	rite	Modbu	s Address	valu	le	00022 = 0 00032 = 0
	IB6	Read DI		20~27(10021~10028) 0x4	2	00023 = 0 00033 = 0
				20 21(10021 10020) 0,4	2	00024 = 0 $00034 = 1$
	IB7	Read DI		28~35(10029~10036) 0x4	0	00025 = 0 00035 = 0
	IB8	Read DI		36~39(*	10037~10040) 0x04	4	00026 = 1 $00036 = 0$
_			101					00027 = 0 00037 = 0
	1.6	L AL	12		perties Linfo	1) 🗓 D	iagnostics	$00028 = 0$ $00038 = 1 \rightarrow 0$
onnection G	informati	on Alai	m dis	play				00029 = 0 - 00039 = 0
								0x40

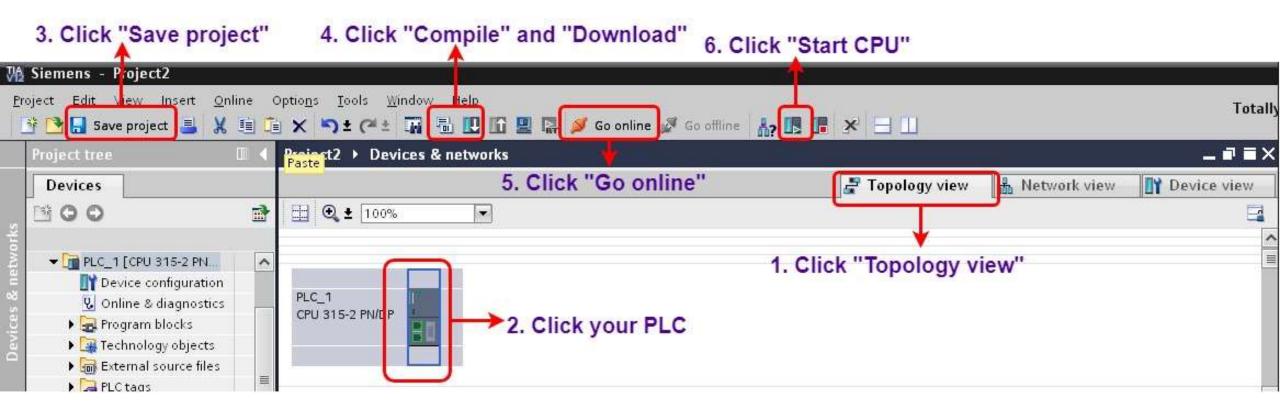


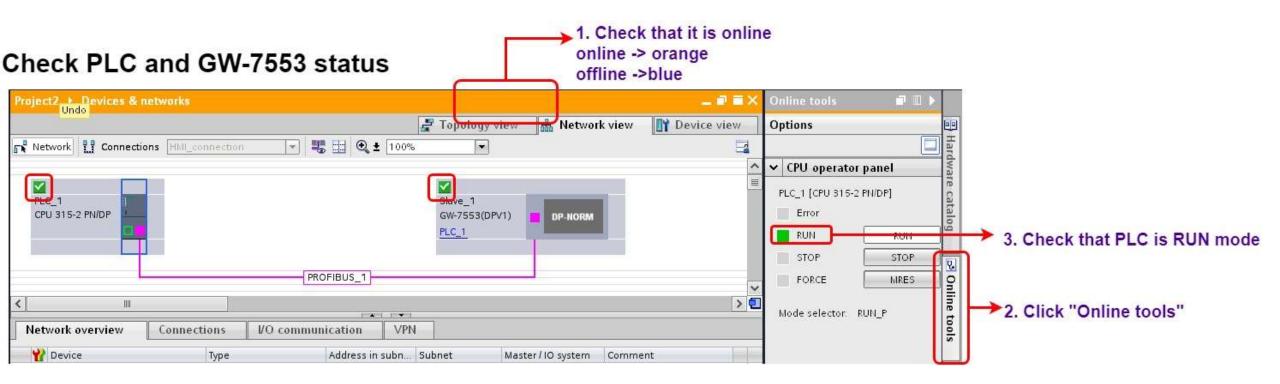
2. Select GW-7553 1. Click "Device view" PLC_1 [CPU 315-2 PN/DP] → Distributed VO → DP-Mastersystem (1): PROFIBUS_1 → Slave_1 _ 7 = X Project2 > Hardware catalog IIY. Device view Options 🚝 Topology view A Network view 🛄 🚄 📩 🔍 🛨 100% --Slave_1 > 🗉 Catalog ¥ IIII firi júri Device overview 🔽 Filter 4 Laddress Qaddr ... Module Rack Slot Type Order no. Firmware 🚺 Output Register–61 word 🔨 GW-7553(DPV1) Slave 1 0 0 2043* V1.90 A. 📕 Output Register–62 word 0...2 = System setting_2_1 0 System setting 📕 Output Register--63 word 0.3 System setting_2_2 0 2 System setting 📗 Output Register–64 word Output Register-3 word_1 Û. 3 3...8 Output Register-3 . Input Register-1 word Input Register-3 word_1 4 4.9 0 Input Register-3 w. Input Register-2 word 0 5 3. Double Click: Input Register-3 word 0 6 Input Register-4 word (1)System setting 0 📕 Input Register–5 word (2)Input Register-3word 0 8 📕 Input Register-6 word 0 9 (3)Output Register-3word Input Register-7 word v n. 10 📕 Input Register–8 word < 1111 3

Proje	ct2 → PLC_1 [CPU 315-2 PN/DF	P] → Di	stributed	IVO ▶ DI	P-Masters	ystem (1): PROFIBU	JS_1 → Slave_1				
					2	Topology view	Network view	Device vi	iew		
*	Slave_1		🗄 🔍 ±	100%]		1720			
<			253	1	11	2			> 1		
De	vice overview				• 1 1 • 1						
-		1		- 11	4	Wesser	4		11		
Ľ	Module	Rack	Slot	l address	Q addr	Туре	Order no.	Firmware			
	Slave_1	0	0	2043*		GW-7553(DPV1)		V1.90	^		
	System setting_2_1	0	1		02	System setting			=		
	System setting_2_2	0	2	05		System setting					
	Output Register-3 word_1	0	3		38	Output Register–3					
	Input Register=3 word_1	0	4	611		Input Register–3 w					
		0	5								
	¥	0	6						_		
1. (Click "Output Registe	r-3wc	ord"								
		0	8							Properties	
		0	9						~		
									2	Output Register-3 word_1 [Module]	erties 🔼
Jutp	ut Register–3 word_1 [Module]					🔍 Properties 📑	Info 追 🛯 Diagno	stics		General IO tags Texts 4. Set module parameter a	s shown
		1			- L					▶ General	
	neral IO tags Texts									Device-specific mathematical Device-specific parameters	
-	Device-specific	c param	eters		2 0	lick "Properti	es"		^	Hex parameter	
Dev									=	I/O addresses Modbus Slave Device ID (M): 1	
	(para 3. Click "D								· · · · · · · · · · · · · · · · · · ·	Start Address (M): 29	
	addresses 💙 🕴 Modbus SI	ave Devic	ce ID (M):	1							
		Start Add	lress (M):	0					Y		

Proje	ect2 → PLC_1 [CPU 315-2 PN/DF	P] → Dis	stribute	IVO → DI	P-Masters	ystem (1): PROFIBL	JS_1 → Slave_1	_ 7	×		
					2	Topology view	Network view	🛐 Device view	N]		
dit .	Slave_1	-	🗄 🔍 ±	100%]					
<									> 🖸		
De	evice overview										
Y	Y Module	Rack	Slot	l address	Q addr	Туре	Order no.	Firmware	11		
	Slave_1	0	0	2043*		GW-7552		V1.90	~		
	System setting_2_1	0	1		02	System setting			=		
	System setting_2_2	0	2	05		System setting					
	Output Register-3 word_1	0	3		38	Output Register-3					
	Input Register-3 word_1	0	4	611		Input Register–3 w					
		0	5								
	×	0	6								
1.	Click "Input Register-	3word	d''7							Description and the second sec	
		0	8							Properties	
		0	9						-	Input Register-3 word_1 [Module]	💁 Properties
1	<		4.0						>	General 10 tags Texts 4. Set mod	lule parameter as shown
Outp	out Register-3 word_1 [Module]				1	Properties *i	Info 🕕 🖸 Diagno	stics		General	fule parameter as shown
Ge	eneral IO tags Texts	1								Device-specific Device-specific parameters	
H										Hex parameter	
	vice-sp				2. C	lick "Properti	les"		*	/O addresses Modbus Slave Device ID (M): 1	
	x para 3. Click "D)evice	-spec	ific"						Start Address (M): 29	
	addresses 💙 🕴 Modbus SI	ave Devic	E ID (M):	1						Module Type (M) Read AO	
<		Start 4dd		10 I					-	moudre type (m). Acedu No	
		Start 4ddi	race (hil)	tu							

71.





₩A S	iemens - Project2											
101	ect <u>E</u> dit ⊻iew Insert Online 🎦 🔒 Save project 📑 🐰 🗐 🕻				line 💆 Go offline	<u>Å</u> ? III III	×					T
J	Toject tree Devices		Project2 > PLC_1 [Cl	3. Click	atch and force ta "Monitor al		tch tab	le_1			<u>p</u>	. # = X
5			i Name	Address	Display format	Monitor val	ue	Modify val	ue 👌	3	Comment	
	 Technology objects External source files PLC tags PLC data types Watch and force tables Add new watch table Force table Watch table_1 Online backups Details view Click "Watch and force table, and double, click "Add	<pre>^</pre>	1 2 3 4 5 6 7	%IW6 %IW8 %QW3 %QW5 %QW7 %QW7 %QW7 %QW7 %QW7 %QW7 %QW7 %QW7	Vord							
	and double click "Ad	d nev	v watch table"		Module		Rack	Slot	l address	Q addr.		
100	Force table		<		Slave_1		0	0	2043*			>
	a				System setting	_2_1	0	1		02		
					System setting		0	2	05	1		
					Output Registe		0	3		38	1	
					Input Register-	-3 word_1	0	4	611			

Modify values and Send Modbus commands

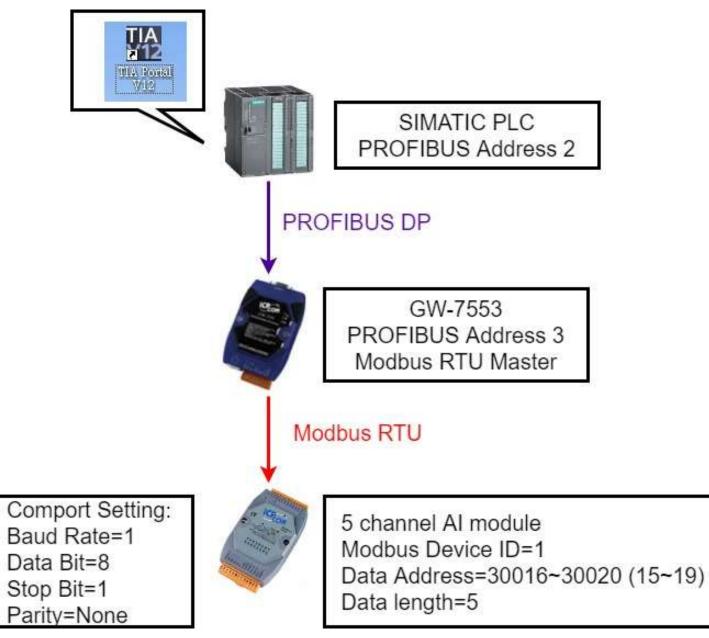
	\frown				0 🖉 🖬 🚭 🗂 🖳 🏩 😵 1
16 9. 2 2	005h 005h ► 1				Mbslav1
i Name	Address	Display format	Monitor value	Modify value	3
	%IW6	Hex	16#0000		ID = 1
	%IW8	Hex	16#0000		
	%IW10	Hex	16#0000		
	%QW3	Hex	16#0000	16#1177	\mathbf{O} 00029 = 0x000
	%QW5	Hex	16#0000	16#4691	$= 00030 = 0 \times 0000$
	%QW7	Hex	16#0000	16#3103	
	Add news				00031 = 0x000

1. Modify values

Modify values and Send Modbus commands

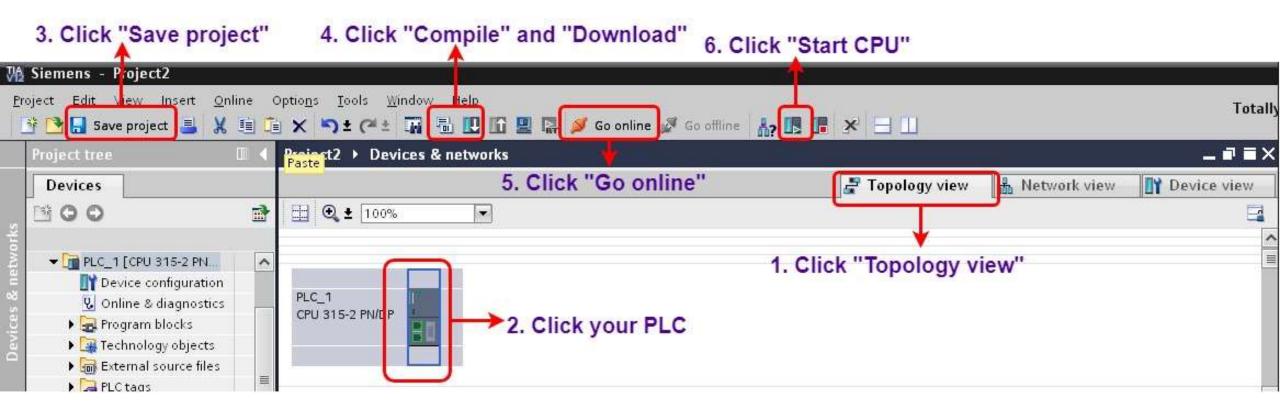
ect2	▶ PLC_1 [CPU	315-2 PN/DP] ▶	Watch and force to	ibles 🕨 W	Vatch table_1	_ # = ×	Mbslav2
10 16	9.9.19	00 00					TD = 1
i	Name	Address	Display format	Monitor	r value Moo	lify value	
1		%IW6	Hex	16#11	77		
2		%IW8	Hex	16#46	91		00029 = 0x1177
3		%IW10	Hex	16#31	03		
4		%QW3	Hex	▼ 16#11	77 16#	1177	00030 = 0x4691
5		%QW5	Hex	16#46	91 16#	4691	
6		%QW7	Hex	16#310	03 16#	\$3103	00031 = 0x3103

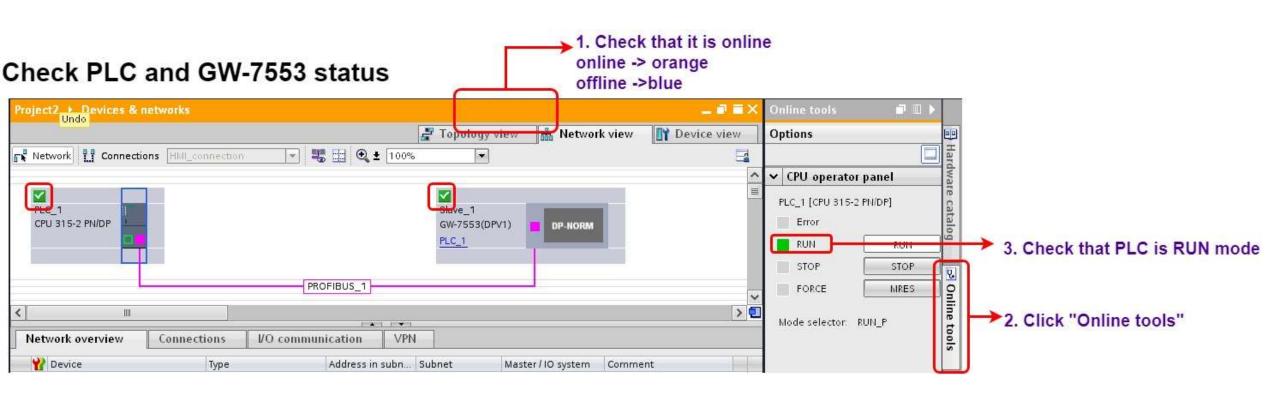
Туре	Read/Write	Modbus Address	value
IW6	Read AO	29(40030)	0x1177
IW8	Read AO	30(40031)	0x4691
IW10	Read AO	31(40032)	0x3103
QW3	Write AO	29(40030)	0x1177
QW5	Write AO	30(40031)	0x4691
QW7	Write AO	31(40032)	0x3103

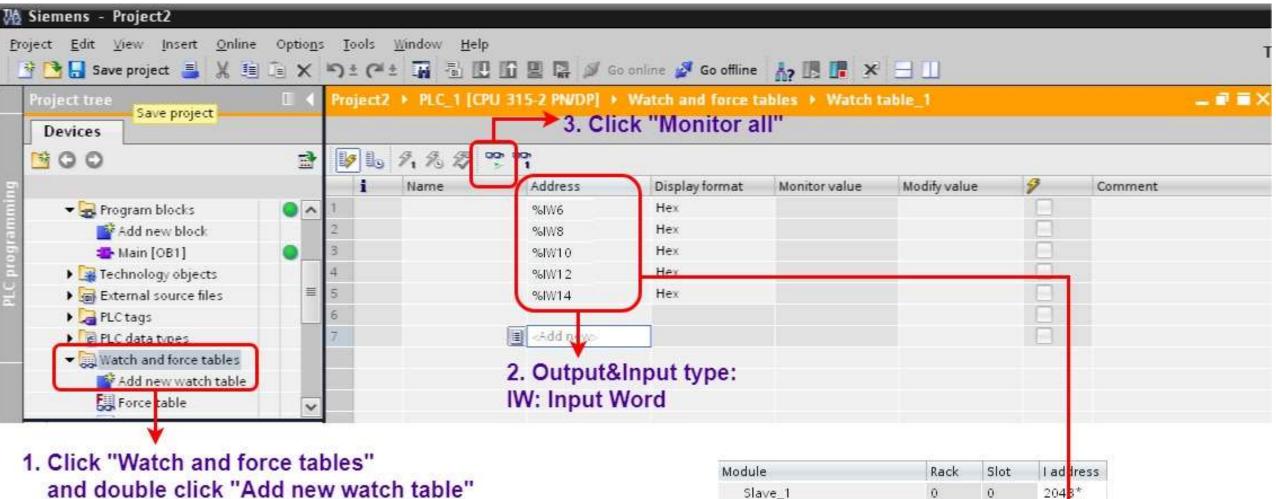


2. Select GW-7553 1. Click "Device view" Project2 > PLC_1 [CPU 315-2 PN/DP] > Distributed VO > DP-Mastersystem (1): PROFIBUS_1 > Slave_1 Hardware catalog IIY. Device view 🚝 Topology view A Network view Options 🖽 媥 🗄 🔍 ± 100% đđ -Slave_1 -✓ Catalog > 💶 titi jitit Device overview 🔽 Filter 🖬 ... Module Rack Slot laddress Qaddr... Order no. Firmware Type 🚺 Output Register-61 word 🔥 GW-7553(DPV1) V1.90 Slave 1 0 Û 2043* A 📗 Output Register–62 word System setting_2_1 0 1 0...2 System setting = Output Register-63 word 0 0 5 System setting_2_2 2 System setting Output Register-64 word Input Register-5 word_1 0 3 6.15 Input Register-5 w. Input Register-1 word 0 4 🜆 Input Register–2 word 5 0 3. Double Click: 间 Input Register–3 word 0 6 🔚 Input Register–4 word (1)System setting 0 7 📗 Input Register–5 word (2)Input Register-5word 0 8 Input Register-6 word 0 9 📗 Input Register–7 word ¥ 0. 10 < > 📗 Input Register–8 word 101

Projec	t2 → PLC_1 [CPU 315-2 PN/D	API N Dia	stributor		Master	system (1): PROFIRI	IS 1 > Slave 1	_ 7	Ξ×		
rojec			stributet		142		A Network view	Constant of Consta			
#	Slave_1		H 🔍 ±	100%			000				
<									>		
Dev	ice overview				en 1-+						
2	Module	Rack	Slot	l address	Q addr	Туре	Order no.	Firmware	4		
	Slave_1	0	0	2043*		GW-7553(DPV1)		V1.90	^		
	System setting_2_1	0	1		02	System setting					
	System setting_2_2	0	2	05		System setting					
	Input Register–5 word_1	0	3	615		Input Register–5 w			11.0		
		0	-								
-	↓	0	6							Device selection	
1.0	lick "Input Register	-5word	d"7							Properties	
	in in participieres	0	8							Input Register-5 word_1 [Module]	14.1
		0	9						-	General IO tags Texts	
<		.0	4.0						>		aven.
Input	Register-5 word_1 [Module]					Roperties	🗓 Info 追 🗓 Dia	gnostics 📃		General Device-specific parameters <u>4. Set module parameter as show</u>	WII
6		-			<u> </u>	Shopenes		gilostics		Hex parameter	
Gen						V				I/O addresses Modbus Slave Device ID (M): 1	
• Gen		ic param	eters _		2. C	lick "Propert	ies"		_	Start Address (M): 15	
	ce-sp 3. Click "I	Device	-spec	ific"						Module Type (M): Read Al	-
		Slave Devic	= ID (M)	1							
< .		Start 4dd		0					~		







Module	каск	SIOT	ladaress
Slave_1	0	0	2043*
System setting_2_1	0	1	
System setting_2_2	0	2	0
Input Register–5 word_1	0	3	615

Modify values and Send Modbus commands

	9.2.2	- 1			
i	Name	Address	Display format	Monitor value	Modify v
		%IW6	Hex	16#1479	
ž.		%IW8	Hex	16#2658	
3		%IW10	Hex	16#3113	
k.		%IW12	Hex	16#6220	
5		%IW14	Hex	16#1522	
8					
t-		Add new>			

😭 Mbslav2		
ID = 1	1	
00015	=	0x1479
00016	1	0x2658
00017	\sim	0x3113
00018	=	0x6220
00019	=	0x1522

Туре	Read/Write	Modbus Address	value
IW6	Read AI	15(30016)	0x1479
IW8	Read AI	16(30017)	0x2658
IW10	Read AI	17(30018)	0x3113
IW12	Read AI	18(30019)	0x6220
IW14	Read AI	19(30020)	0x1522