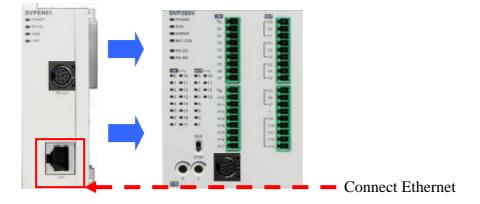
# How to use InTouch with DVP28SV11R/T + DVPEN01-SL

In this technical note, we cover the following topics.

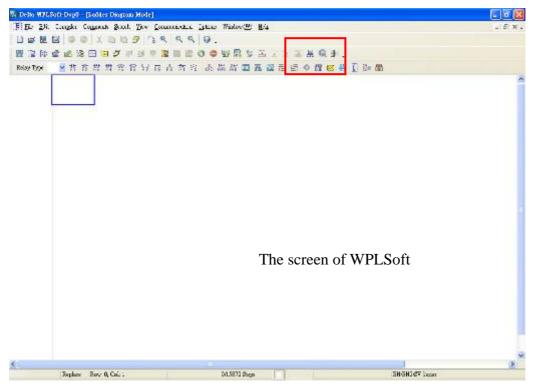
- 1. How to connect DVP28SV and EN01
- 2. How to setup InTouch communication with DVP28SV by EN01
- 3. How to setup InTouch communication with DVP28SV by RS-485

## 1. How to connect DVP28SV and EN01

- 1-1. Plug EN01 to 28SV left side.



1-3. Open WPLSoft to configure EN01





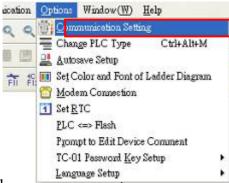
: Looking for EN01 module via broadcasting.

: Looking for EN01 module via indicating IP address.

: Configuring EN01 via RS-232.(Doesn't need to connect to Ethernet)

- 1-4. There is two way to search EN01 via Ethernet.
- Broadcast:

If this is the first time you connect EN01 to Ethernet and have no idea what's its IP address, then you can use "broadcast" to look for EN01 in the network.



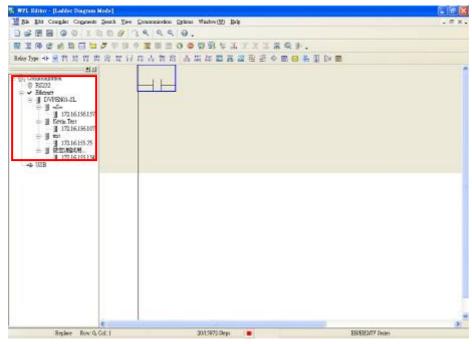
Choosing option — communication setting" to set PLC communication port.

Type	RS232 -	
Protocol	RS232 USB	
COM Port	Ethemet	<ul> <li>ASCII</li> </ul>
Data Length	7 .	C RTU
Parity	Even	
Stop Bits	1 -	Auto-Detect
Baud Rate	9600 💌	
Station Address	0 ÷	Default
Baudrate Setting	Decided by	
Setup Respondin	g Time	
Times of Auto-re	try	3 2
Time Interval of A	Auto-retry (sec.)	3 -

Set "Ethernet" as your communication port.



Press "Broadcast" button, then WPLSoft will start to search EN01 in the network.



If success, the left window will show all EN01 modules in the network.



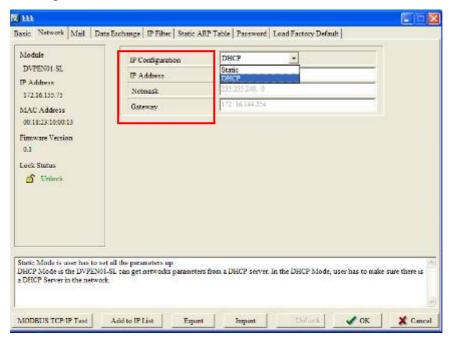
Press "IP search" button, then the input IP address window will pop out. User can type IP address in the upper space.

If success, the result will be just like the broadcast.

- 1-5. How to configure EN01.
- Double click the module in the left window.
- The configuration window will be pop out.

Module DVPEN01-SL	Module Name Module Language	kisk English -
IP Address 172.16.155.75 MAC Address 00:18:23:10:00:13	F Enable MODBUS T	CP IP 2
Firmware Version 0.1 Lock Status	☞ Enable Time Server □ Start Destight Servic	
Grand Contracts	Time Server	0. 0. 0. 0
The second	Time Zone	Gd4T-08:00)Taipei
tere is the basic setting, in	- clude the module name and NT ad for occurations the different 3	'P related parameters. DVPEN01 SLs. User can type what ever they want.

- (1). The basic information of EN01, includes IP address, MAC address, firmware version and so on.
- (2). Module name and language. (user define)
- ③. Option of EN01.

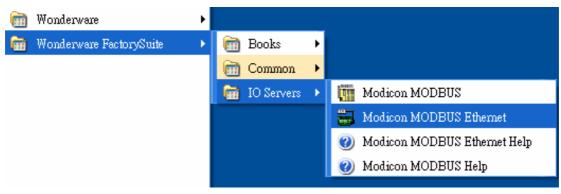


Network setting –IP configuration (Static/DHCP), IP address, Netmask, Gateway.

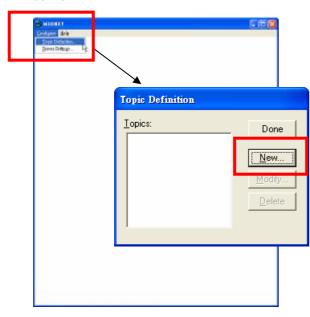
## 2. How to setup InTouch communication with DVP28SV by EN01

2-1. Wonderware's InTouch software works with the Wonderware MODBUS Ethernet I/O Server (MBENET) to communicate with EN01. The MBENET server supports all devices that support the MODBUS TCP protocol. Make sure that MBENET has been installed before running InTouch. Run the MENET server by

opening Start →All Programs → Wonderware FactorySuite →IO Servers → Modicon MODBUS Ethernet.



2-2. Select **Topic Definition** in the **Configure** menu and create a new topic of I/O server



2-3. A window for **Topic Definition** will appear. Follow the steps as below.

- 1). Add the **Topic Name**.
- (2). Set the **IP Address** of EN01.
- ③. Choose 584/984 PLC as the Slave Device Type.
- ④. Set the Block I/O Sizes.Coil Read: 80Coil Write: 80

	MBENET Topic Defini	tion		X
(2)	<u>T</u> opic Name:			ОК
	IP <u>A</u> ddress:			Cancel
3	Dest_Index or Unit_ID:	0		
4	Slave Device Type:	Micro84 Daniel F Elliot Flo Micromo	A PLC m (6 digit address PLC Tow Computer Sow Computer Dation Flow Computer <u>Begister Type</u> Binary BCD BCD ead: 100	uter

## 2-4. Open Wonderware → InTouch.

6	Wonderware •	<b></b>	Books	۲
<b>•</b>	Wonderware FactorySuite	<b></b>	Common	•
		<b></b>	InTouch	•
			IO Servers	Þ
		1	InTouch	
		Ø	System Management Console	
		Ż	WindowMaker	
		W	WindowViewer	

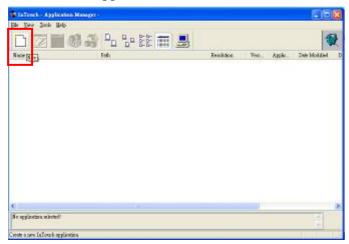
## 2-5. After setting all configurations, click **Done** to save.

Done
<u>N</u> ew
Modily
Delete

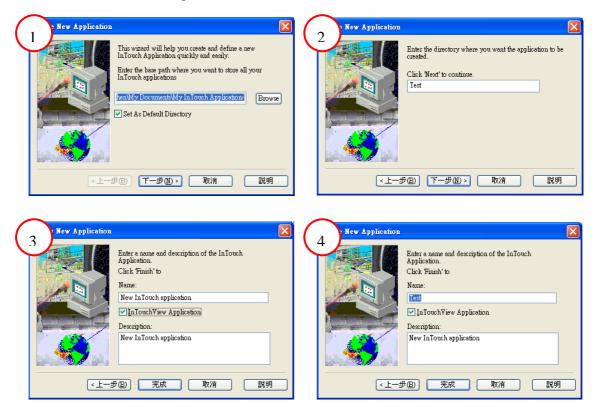
2-6. Start InTouch under Start → All Programs → Wonderware → InTouch. The Application Manager will open. Create a new application in the default path folder and define an application name, such as "EN01."



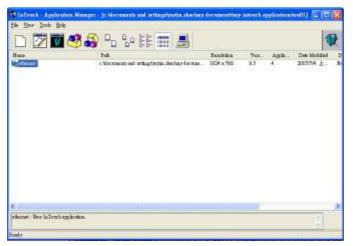
Create a new application



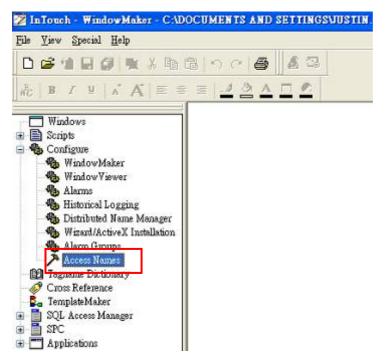
- (1). Set the path for storing InTouch application data.
- (2). Set the directory of application creation.
- ③. Type the application name.
- (4). Press "Finish" if setting ok.

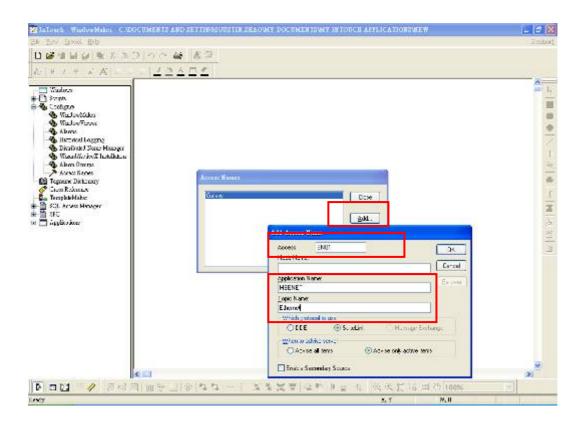


2-7. Double-click the application that you defined earlier in order to open **InTouch-WindowMaker**.

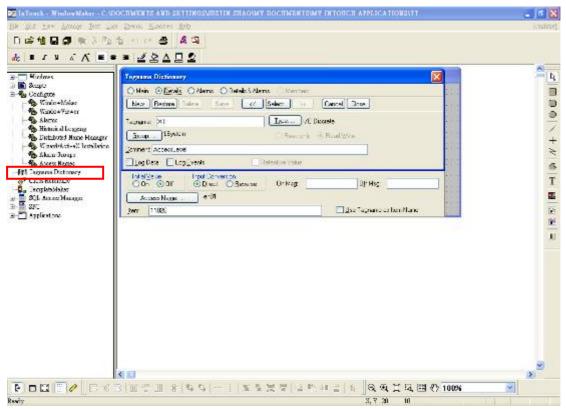


2-8. In **InTouch-WindowMaker**, go to **Configure**  $\rightarrow$  **Access Names** and double click then select on **Add** in the dialog box that appears. Enter an Access Name. The Application Name must be "**MBENET**" and the Topic Name must the same as the MBENET Topic Definition that was defined earlier (i.e. "EN01").





2-9. Each I/O channel that you wish to access will need to be defined as a tag with a unique tagname. Go to **Tagname Dictionary** and double click it in order to define the tags.



To define a digital input channel, set Type=I/O Discrete, Access Name=the name you defined earlier, and Item=the Modbus address as determined using the configuration file.

	🔤 Jag Jypes 🛛 🔁
Tagname Dictionary	Menory Discrete Tag ID
O Main	Contraction
New Bestore Delete Save Select >> Cancel	Close Voltager
Tagname: X0 Iypo: I/O Discrete	Lafaret Analog Monony Mesage
Group:\$System	DO Manage Dalainet Manage Decorp For East Torol
Comment DI	
Log Data Log Events Retentive Value	OK Cancel Detail Over All
Initial Value Input Conversion O Dn  O Off  O Direct O Beverse On Mag:	Off Meg
Access Name: en01	
liem: 11025	Jse Tagname as Item Name

To define a digital output channel, set Type=I/O Discrete, Access Name=the name you defined earlier, and Item=the Modbus address as determined using the configuration file.

Tagname Dictionary			X
◯ Main ⊙ Details ◯ Alarms ◯ Details & Alarn	ns 🔘 Members		
New Restore Delete Saye 34	Select	ancel Close	
Tagname: Y0	Ivpe: I/O Discre	ste	
Group: \$System	O Read <u>o</u> nly O F	lead <u>W</u> rite	
Comment DO			
Log Data Log Events	etentive Value		
Initial ⊻alue Input Conversion ◯ On ◯ Off ◯ Direct ◯ Reverse	On Mag	Off Msg:	]
Access Name: en01			
[tem: 1281]		Use Tagname as Item Name	Э

To define an analog input channel, set Type=I/O Integer, Access Name=the name you defined earlier, and Item=the Modbus address as determined using the configuration file.

Tagname Dictionary         Main       ● Details       ● Alarms       ● Details & J         New       Bestore       Deteile       Save       ≤         Tagname:       Al		Cancel /O Integer nb O Read	Close	kenocy Decerte O Docene denes Uarrane fernocy Jintyre <b>Official</b> denes fandlo fernocy Massign O Manage abiret fandlog fernocy Massign O Manage fernocy Massign O	Dental Scientific Constant
Initial Value: 0	Min EU:	-32768	Ma <u>x</u> EU:	32767	
Deadband: 0	Min Ra <u>w</u> :	-32768	Max R <u>a</u> w:	32767	
Eng Unite:	Log Dead <u>b</u> andt	0	Conversi O Linear	ion r <u>O S</u> quare Root	
Access Name: Unassigned			Use Ta	agname as Item Name	

To define an analog output channel, set Type=I/O Integer, Access Name=the name you defined earlier, and Item=the Modbus address as determined using the configuration file.

🔿 Main 💿	Details 🔿 Alarms 🔿 D	letails & Alarms 🕜 Membe	re		×
New Be	store Delete Save	) <u>x</u> ( ][ <u>s</u> elect][ <u>2</u>	Cancel	Close	
Tagname: A	0	<u>Туре:</u>	I/O Integer		
Group:	\$System	O Read g	nly 💿 Read )	wite	
Comment AD					
Log Data	Log Events	🔲 Retențive Value	Retentive F	<sup>o</sup> ara <u>m</u> eters	
Initial <u>V</u> alue:	0	Min EU:	-32768	Ma <u>x</u> EU:	32767
<u>D</u> eadband:	0	Min Ra <u>w</u>	-32768	Max Raw:	32767
Eng Units:		Log Deadband	0	Conversi O Linear	on O Square Root
Access	Na <u>me:</u> Una <mark>signe</mark>	d			
Item 42029				E liter Te	igname as Item Nan

2-10. Open a new window, and then "**Window Properties**" window will ask you to type the window name & comment...etc.

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	Bergins     Scripts     Scripts     Scripts     Scripts     Scripts     Scripts     Teganne Dictionary     Cross Reference     ScriptabeMokar     Applications	Window Properties       Ngme:     Window Qolor:       Cogment:     Cancel       Window Type     Dimensions       Scripts     Scripts       Frame Style     Double       None     Window Height:       361     Sige Controls	

2-11. Press the "Wizard Selection" button

Ready



to add events.

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2-12. Choose the item which needed. And for digital input using, choose "Switches".

Wizard Selection				
ActiveX Controls Alarm Displays Buttons Clocks Frames Lights Meters Panels Runtime Tools Sliders SmartSymbol Swate bes Text Displays Trends Value Displays Windows Controls	Facture Switch Label Key Switch	Rocker Switch	Label More The Second S	
Wizard Description				
On/Off Fixture discrete s	witch.			
OK Ca	ncel <u>A</u> dd to to	olbar <u>R</u> emove fr	om toolbar	

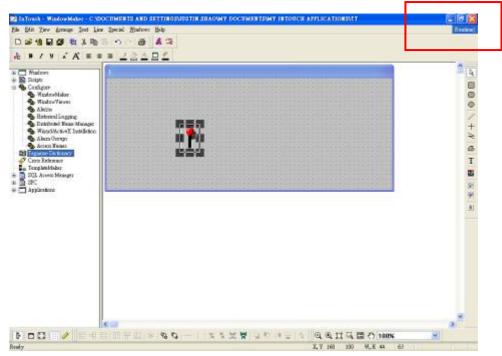
2-13. After drawing a tag on editing window, double click it to set detail properties. Type the tagname which you defined earlier.

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Ede Edit Yew Arrange Iext Line Special Windows Help	Runtimel
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Ready X, Y 110 50 W, H 44	63

Or you can type new tagname and double click the tagname to setup new tag.

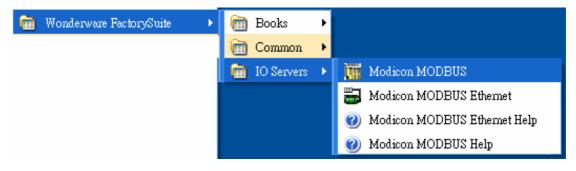
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~		
Discrete Switch Wizard		
	ОК	
Tagname: X0		
Tagname Dictionary	×	
O Main O Details O Alarms O D	Details & Alarms 🕜 Members	
New <u>Restore</u> Delete Save	<u>S</u> elect ≥> Cancel Close	
Tagname: X0	Lype: Memory Discrete	
	Lype Memory Discrete	
Group: \$System	Read only Read Write	
Comment		
	Retentive Value	
Comment       Log Data   Log Events	Retentive Value	
Log Data Log Events	Retențive Value	
Log Data Log Events		

2-14. After you finish configuring your application, click **Runtime** to run the application and view the operation of your I/O devices. You may also view the status of communication between the MBENET server and EN01.



## 3. How to setup InTouch communication with DVP28SV by RS485

3-1. Wonderware's InTouch software works with the Wonderware MODBUS I/O Server to communicate by Modbus. The Modbus server supports all devices that support the Modbus protocol. Make sure that Modbus has been installed before running InTouch. Run the server by opening **Start →All Programs → Wonderware FactorySuite → IO Servers→Modicon MODBUS** 



3-2. Configure the com port. Set the com port, and the Modbus protocol, including Baud Rate, Data Bits, Stop Bits, and Parity.

E Martinitz Lankare Belg Con Inst Denge Lank Ortsebre Senes Delligat		
	Communication Fort Settings Protocol Protoco	Dono Sar-s
	Переднострана Веки Пона Спос С 200 С 610 С 1200 С 2400 С 4800 € 9800 С 1400 С 19200 С 38400	Dejaute
	Data Sie     Sinn Sie       F 7     8       F 1     2       Faith     C       F Even     0 dd       F Even     0 dd	

3-3. Follow the procedure in Sec. 2-2 to 2-14 to create new topic and setup I/O.

# Appendix 1

Danaa		T	DVP address	Modbus address	Effective			
Device Range		Туре	(Hex)	(Dec)	ES/EX/SS	SA/SX/SC	EH	
000~255		bit	0000~00FF	000001~000256				
256~511		bit	0100~01FF	000247~000512	0 127	0 1024	0 1024	
512~767		bit	0200~02FF	000513~000768	-0~127	0~1024	0~1024	
768~1023	3	bit	0300~03FF	000769~001024				
000~377		bit	0400~04FF	101025~101208	0 177	0 177	0 277	
000~377		bit	0500~05FF	001281~001536	0~177	0~1//	0~377	
000 255		bit	0600~06FF	001537~001792	0 127	0.255	0.255	
000~233		Word	0600~06FF	401537~401792	0~127	0~233	0~255	
000~255		bit	0800~08FF	002049~002304				
256~511		bit	0900~09FF	002305~002560		0 4005		
512~767		bit	0A00~0AFF	002561~002816	0 1270		0~4095	
768~1023 1024~1279		bit	0B00~0BFF	002817~003072	0~1279	0~4095	0~4093	
		bit	0C00~0CFF	003073~003328				
1280~153	35	bit	0D00~0DFF	003329~003584				
1536~179	91	bit	B000~B0FF	045057~045312			0~4095	
1792~204	<b>1</b> 7	bit	B100~B1FF	045313~045568				
2048~230	)3	bit	B200~B2FF	045569~045824				
2304~255	59	bit	B300~B3FF	045825~046080				
2560~281	15	bit	B400~B4FF	046081~046636	0 1270	0 4005		
2816~307	71	bit	B500~B5FF	046637~046592	0~1279	0~4093		
3072~332	27	bit	B600~B6FF	046593~046848				
3328~358	33	bit	B700~B7FF	046849~047104				
3584~383	39	bit	B800~B8FF	047105~047360				
3840~409	95	bit	B900~B9FF	046361~047616				
0~	16 14	bit	0E00~0EC7	003585~003784	0 127	0 100	0~199	
199	10-D1t	Word	0E00~0EC7	403585~403784	0~127	0~199		
200 255	20.1.5	bit	0EC8~0EFF	003785~003840	020 055	200.255	200~255	
200~255 32-bit			0EC8~0EFF	403785~403840	-232~255	200~255		
	256~511 512~767 768~1023 000~377 000~377 000~255 256~511 512~767 768~1023 1024~123 1280~153 1536~179 1792~204 2048~230 2304~255 2560~281 2816~307 3072~332 3328~358 3584~383 3840~409 0~ 199	000~255 256~511 512~767 768~1023 000~377 000~377 000~255 256~511 512~767 768~1023 1024~1279 1280~1535 1536~1791 1792~2047 2048~2303 2304~2559 2560~2815 2816~3071 3072~3327 3328~3583 3584~3839 3840~4095 0~ 199 200~255 32-bit	$ \begin{array}{c c c c c } 000~255 & bit \\ 256~511 & bit \\ 512~767 & bit \\ 768~1023 & bit \\ 000~377 & bit \\ 000~377 & bit \\ 000~255 & bit \\ 000~255 & bit \\ 256~511 & bit \\ 512~767 & bit \\ 768~1023 & bit \\ 1024~1279 & bit \\ 1280~1535 & bit \\ 1536~1791 & bit \\ 1792~2047 & bit \\ 1792~2047 & bit \\ 1792~2047 & bit \\ 2304~2559 & bit \\ 3328~3583 & bit \\ 3328~3583 & bit \\ 3328~3583 & bit \\ 3840~4095 & bit \\ 0~ & 16-bit \\ \hline 0~ $	Range         Type         (Hex)           000~255         bit         0000~00FF           256~511         bit         0100~01FF           512~767         bit         0200~02FF           768~1023         bit         0300~03FF           000~377         bit         0400~04FF           000~377         bit         0400~06FF           000~255         bit         0600~06FF           000~255         bit         0600~06FF           000~255         bit         0800~08FF           256~511         bit         0900~09FF           512~767         bit         0A00~0AFF           502~101         bit         0400~0FF           512~767         bit         0A00~0FF           512~767         bit         0A00~0FF           512~767         bit         0A00~0FF           1024~1279         bit         0D00~0DFF           1536~1791         bit         B100~B1FF           1280~1535         bit         B200~B2FF           2304~250         bit         B300~B3FF           2304~255         bit         B400~B4FF           2816~3071         bit         B600~B6FF	Range         Type         (Hex)         (Dec)           000~255         bit         0000~00FF         00001~000256           256~511         bit         0100~01FF         000247~000512           512~767         bit         0200~02FF         000513~000768           768~1023         bit         0300~03FF         000769~001024           000~377         bit         0400~04FF         101025~101208           000~377         bit         0500~05FF         001537~001792           000~255         bit         0600~06FF         001537~401792           000~255         bit         0600~06FF         002049~002304           256~511         bit         0900~09FF         002305~002560           512~767         bit         0400~04FF         002305~002560           512~767         bit         0900~09FF         002305~002560           512~767         bit         0400~02FF         002307~003328           1024~127         bit         0400~0EFF         003073~003328           1280~1535         bit         0D00~0DFF         03329~003584           1336~1791         bit         B100~B1FF         045313~045568           2048~2305         bit         B200~B2FF	RangeType (Hex)(Dec)ES/EX/SS000~255 ×bit0000-00FF00001~00025655/EX/SS256~511 ×bit0100~01FF000247~0005121217512~767 ×bit0200-02FF000513~0007680~177768~1023 ×bit0300~03FF000769~0010240~177000~377 ×bit0500~05FF001537~0017920~177000~255 ×bit0600~06FF01537~0017920~127000~255 ×bit0600~06FF002305~0025600~127000~255 ×bit0800~08FF002305~0025600~127000~255 ×bit0800~08FF002305~0025600512~767 ×bit0800~08FF002317~00332812791024~127 ×bit0800~08FF003073~00332812791024~127 ×bit0B00~0FF03329~00358412791024~127 ×bit0D00~0FF03329~0035841536~17.0453121536~17 ×bitB100~B1FF045313~045568145569~0458241280~153 ×bitB100~B1FF045569~0458241792~2047 ×bitB200~B2FF045569~0458242304~255 ×bitB400~B4FF046637~046592316~37.17 ×bitB600~B5FF046637~046592328~358 ×bitB700~B7FF046849~0471043584~382 ×bitB700~B7FF046361~0476160~115bitB900~B9FF04536~03784328~358 ×bitB900~B9FF04536~03784199<	Range         Type         (Hex)         (Dec)         ES/EX/SS         SA/SX/SC           000-255         bit         0000-00FF         00001-000256         256-511         bit         0100-01FF         000247-000512 $2512-767$ bit         0100-01FF         000513-000768 $0^{-127}$ $0^{-127}$ $0^{-127}$ $0^{-1024}$ 512-767         bit         0300-03FF         000769-001024 $0^{-177}$ $0^{-177}$ $0^{-177}$ $0^{-177}$ $0^{-177}$ $0^{-177}$ $0^{-177}$ $0^{-255}$ 000-377         bit         0600-06FF         01537-001792 $0^{-127}$ $0^{-255}$ 000-255         bit         0600-06FF         00249-002304 $0^{-127}$ $0^{-255}$ 000-255         bit         0800-08FF         002049-002304 $0^{-127}$ $0^{-255}$ 000-257         bit         0800-08FF         00235-002560 $0^{-127}$ $0^{-256}$ 512-767         bit         0800-08FF         00231-003281 $0^{-127}$ $0^{-256}$ $0^{-127}$ $0^{-256}$ 512-767         bit         0800-08FF         00231-002816 $0^{-127}$	

Modbus address table of Delta DVP series PLC.

Device Range	n.	T	DVP address	Modbus address	Effective				
	Туре	(Hex) (Dec)	ES/EX/SS	SA/SX/SC	EH				
D	000~255	Word	1000~10FF	404097~404352					
D	256~511	Word	1100~11FF	404353~404608					
D	512~767	Word	1200~12FF	404609~404864					
D	768~1023	Word	1300~13FF	404865~405120					
D	1024~1279	Word	1400~14FF	405121~405376					
D	1280~1535	Word	1500~15FF	405377~405632					
D	1536~1791	Word	1600~16FF	405633~405888	0~1311	0~4999	0~9999		
D	1792~2047	Word	1700~17FF	405889~406144	0~1311	0~4999	0~9999		
D	2048~2303	Word	1800~18FF	406145~406400					
D	2304~2559	Word	1900~19FF	406401~406656					
D	2560~2815	Word	1A00~1AFF	406657~406912					
D	2816~3071	Word	1B00~1BFF	406913~407168					
D	3072~3327	Word	1C00~1CFF	407169~407424					
D	3328~3583	Word	1D00~1DFF	407425~407680					
D	3584~3839	Word	1E00~1EFF	407681~407936					
D	3840~4095	Word	1F00~1FFF	407937~408912					
D	4096~4351	Word	9000~90FF	408913~409168					
D	4352~4607	Word	9100~91FF	436865~437120					
D	4608~4863	Word	9200~92FF	437121~437376					
D	4864~5119	Word	9300~93FF	437377~437632					
D	5120~5375	Word	9400~94FF	437633~437888	0 1211	0 4000	0~9999		
D	5376~5631	Word	9500~95FF	437889~438144	-0~1311	0~4999	0~9999		
D	5632~5887	Word	9600~96FF	438145~438400					
D	5888~6143	Word	9700~97FF	438401~438656					
D	6144~6399	Word	9800~98FF	438657~438912					
D	6400~6655	Word	9900~99FF	438913~439168					
D	6656~6911	Word	9A00~9AFF	439169~439424					
D	6912~7167	Word	9B00~9BFF	439425~439680					

Davias	Dongo	Туре	DVP address	Modbus address	Effective	Effective				
Device	ice Range		(Hex)	(Dec)	ES/EX/SS	SA/SX/SC	EH			
D	7168~7423	Word	9C00~9CFF	439937~440192						
D	7424~7679	Word	9D00~9DFF	440193~440448						
D	7680~7935	Word	9E00~9EFF	440449~440704						
D	7936~8191	Word	9F00~9FFF	440705~440960			0~9999			
D	8192~8447	Word	A000~A0FF	440961~441216						
D	8448~8703	Word	A100~A1FF	441217~441472	0~1311	0 4000				
D	8704~8959	Word	A200~A2FF	441473~441728	0~1311	0~4999				
D	8960~9125	Word	A300~A3FF	441729~441984						
D	9126~9471	Word	A400~A4FF	441985~442240						
D	9472~9727	Word	A500~A5FF	442241~442496						
D	9728~9983	Word	A600~A6FF	442497~442752						
D	9984~99999	Word	A700~A70F	442753~443008						

## Appendix 2

Item names table of Modbus

#### Item names table of Modbus Ethernet

MODEOS						S Wooderware Madison MODBUS Ether	art 1/0 Serve	10			51	
第四 稍稍如 春秋秋 医颈口 就明白	D					福安田 編輯田 春葉和 運動の 現明					-	
9月王夏山 上一步回 予印它	16 1					RAIBO 1-PO MPC	34	27 (374)				
🗋 Contenti 🔍 Julea 🖊 Deach	Kern Name	•			^	Ca Content (2, Index ) A Deach						
Datorincian     Distorincian     Distorincian     Distorincian     Distorincian     Distorincian Protocole     Distorincian Protocole     Distorincian Protocole     Distorincian Protocole     Distorincian Protocole     Distorincian	The Moskow MODBUS I/O Server supports the work in energy that are consistent with the paint maning convention used by Modece PLCs. The server allows you to select a Salver Type when you configure the doos entrinsing to the PLC. The PLC address Ranges supported are					(in Introduction	Item Na	Item Names				
						El Introfection	The resta	austrate demonstrates	mas that are nones	dant with the r	and coming	
	PLC Type	Point Type	Range	Tau Type	Acces	Communication Protocolo     Excerning Remote Jacob via the 1/0 Se						
Configuring the I/O Server	434	Coll	1-509		Read	Configuring the 1/O Server	Type what	you configure the topic	: definition for the P	LC.		
<ul> <li>Seving the 50 Server's Configuration F</li> <li>Configuration a Topic Definition</li> </ul>		Contain	1001-1939	Discrete	Read +	Configurage Topic Definition	The follow	ng PUC Address Range	e are supported			
Configurate the DO Dever Settings		Input Register Holding Register	3001-3958 4001-4958	Analog Analog	Read/	<ul> <li>Soving the 3/O Server's Configuration File</li> <li>Configurant the 1/O Servic Settage</li> </ul>	PLCTOP	Point Type	Binge	Tag hpe	Access	
Accessing 10 Secret Help	594/994	Coll	1-8999	Discrete	Read	According 1/0 Derver Malp	434	Coli	1-099	Discrete	FandWrite	
B Street Report	Microsofi 4	Contact	10001-19999	Discrete	Read	Dime Nexes	00896	Contact	1001-1996	Discrete	Renzi-Only	
E Special HeraiTotat Heraing Convect		Input Register Holding Register	30001-31999 40001-49999	Analog Analog	Read	PC then Huner     Provid Hendry     Provid Hendry Convector     Montology the State of Construction     Montology the State of Constructions		Hund Register Holding Register	3001-3998 4001-4009	Anielog Anielog	Read-Onle Read-Viteo	
<ul> <li>Monitoring the 3 bits of Communication</li> <li>Monitoring the 3 bits of Communication</li> </ul>		* Ext Memory Register	600031-699999	Analogi	Read		501.004	Col	1,9998	Discette	Read/wite	
Reading Values from the UO Server ind	6 Digit	Col	1-65538	Discrete	Read		1001064	Contact	10001-19999	Decrete	Real-Only	
Without Tableto to the DO Server from [	Contait		100031-165538	166538 Discoste	Read	Reading Values from the DO Server into I		Input Register	30801-39989	Arvalog	Read-Only	
🔹 Terablerhorting DO Server Conservat		Input Register 20001-145536 Analog Read I 🗬 Walking Values to the I/O Server down S		Holding Riegister	40001-49999	Analog	Read/write					
NAMES AND ADDRESS OF ADDRESS ADDRE			🔹 Traviblethowing DO Server Communication		* Ext Memory Register	800001-89.000	Antelig	Read/wite				
	2	Personal conference	an many many many	Granten	Coll	1.000 to 1000	Discrate	Percilian				
	* Extended Memory Registers are only supported on the SE48 and SE4.765. Addresses are sospirated as follows:						(6-5981) Contect 100001-105536 No.0 Register 300001-395536 Hoteling Register 400001-455535			Ciscrete Anteleg	Real-Only Real-Only	
								Analog	ReadWitte			
		File d Range						000001-09x3xxx	Anning	FeedAnte		
	1 00001-60099 2 010001-45099 3 02001-32999 4 02001-32999 5 040001-46999 0 09001-46999 7 05001-46999 9 02001-45999 10 09001-65999 10 09001-65999					<sup>1</sup> Descript Manacy Registers as apported on the Grantum (S-Digit), 646 matter: Series PLDs. Addresses are assigned as follows: File 4 Barage						
						1 2 3 4 6	\$10001-610000 \$10001-620000 \$20001-630000 \$30001-640000 \$40001-650000					
		rlag types can be other Hisgo	r or Real.			7 850001-67	450001-650000 650001-670000 670001-680000					
C	Related To:	UK BI			100		9	980001-990000				

#### Item names table

PLC Type	Point Type	Range	Tag Type	Access
584/984	Coil	1-9999	Discrete	Read/Write
	Contact	10001-19999	Discrete	Read Only
	Input Register	300001-365536	Analog	Read Only
	Holding Register	400001-465536	Analog	Read/Write
	Ext Memory Register	600001-69xxxx	Analog	Read/Write

How to convert Modbus address of PLC items to InTouch item names?

Example1: Y0

Modbus address of Y0 is 1281, and Y0 is the coil which can be read and wrote.

And the item name of the coil in InTouch starts from 1.

So the item name of Y0 in InTouch must be 1281 and so on.

Example 2: X0

Modbus address of Y0 is 1025, and X0 is the contact which can be read only.

And the item name of the contact in InTouch starts from 10001.

So the item name of X0 in InTouch must be 11025 and so on.