How to use KEPServer EX opc server with DVP28SV11R/T + DVPEN01-SL+DVP06XA

In this technical note, we cover the following topics.

- 1. How to connect DVP28SV, EN01 and 06XA
- 2. How to setup KEPServer EX communication with DVP28SV by EN01
- 3. How to setup KEPServer EX communication with DVP28SV by RS-485

1. How to connect DVP28SV, EN01 and 06XA.

- 1-1. Plug EN01 to 28SV left side and plug 06XA to right side.





: 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.

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

Set "Ethernet" as your communication port.

Searching	
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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.

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(1). The basic information of EN01, includes IP address, MAC address, firmware version and so on.

dodule DVPEN01-SL P Address	IP Configuration IP Address	DHCP Static DHCP	<u>.</u>		
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Network setting –IP configuration (Static/DHCP), IP address, Netmask, Gateway.

2. How to setup KEPServer EX communication with DVP28SV by EN01

2-1. Run the KEPServerEX OPC Server to add a new channel and then click Next.



2-2. Select the **Device driver** (**Modbus Ethernet**) that you want to assign to the channel and then click **Next**.



2-3. Select the correct Network Adapter on your Host and then click Next.



2-4. Then you can do some custom settings of KEPServer EX, or you can just follow the default settings. After setting finished, click **Finish**.



2-5. Add a new Device (Enter the name of the device) and then click Next.



2-6. Select the device model (Modbus) and then click Next.



2-7. Define the EN01 IP and use default ID (0) in Device ID field. The entry should look like: *172. 16.155. 75.0* Click **Next** to continue.



2-8. Setup Modbus TCP port (502), select the IP Protocol as *TCP/IP* and then click **Next**.



2-9. Then do some custom settings, or you can just follow the default settings. After setting finished, click **Finish.**

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2-10. Click as indicated in the screen below, to add a static Tag for DI, DO, and AI,AO.

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2-11. Define the DI tag (Address = 100065, Data type = Boolean, Client Address = Read only) and then click **Apply** to apply the changes. About the address, please refer the appendix.

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2-13. Define the DI tag (Address = 001281, Data type = Boolean, Client Address = Read/Write) and then click **Apply** to apply the changes. About the address, please refer the appendix.

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2-14. Define the AI tag. In the ladder program (WPLSpft), you have to indicate the register to store the analog input data from 06XA. The ladder program for example is as below:



The program means read data from analog module DVP-06XA to D0. As a result, the D0 is set as analog input.

Note: For more information about DVP-06XA, please refer the user manual and you can download the manual on Delta official website.

Address = 404097, Data type = Word, Client Address =Read/Write and then click **Apply** to apply the changes. About the address, please refer the appendix.

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2-15. Define the AO tag. In the ladder program (WPLSpft), you have to indicate the register to store the analog output data from 06XA. The ladder program for example is as below:



The program means write data to analog module DVP-06XA via D0. As a result, the D0 is set as analog output. And the address is just like the description above.

Note: For more information about DVP-06XA, please refer the user manual and you can download the manual on Delta official website

2-16. Click the Quick Client icon



to monitor all devices and values.

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- ①. Select your device.
- (2). You can see all the tag you've set.

2-17. To test DI/DO/AI/AO, right click the tag and select Asynchronous 2.0 Write option and set values.

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2-18. Enter the $\[\]$ Write value $\]$ and click **Apply** then you can see the value has been changed.

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3. How to setup KEPServer EX communication with DVP28SV by RS485

3-1. Run the KEPServerEX OPC Server to add a new channel and then click **Next**.

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3-2. Select the **Device driver** (**Modbus Serial**) that you want to assign to the channel and then click **Next**.



3-3. Set the Protocol to match PLC.

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3-4. Then you can do some custom settings of KEPServer EX, or you can just follow the default settings. After setting finished, click **Finish**.



3-5. Add a new Device (Enter the name of the device) and then click Next.



3-6. Select the device model (Modbus) and then click Next.



3-7. Select the Device ID which match the PLC ID and Click **Next** to continue.



- 3-8. Follow steps 2.9 to 2.18 to complete the tag setting.
- Note. If need any information about KEPServer EX, please visit the official website. http://www.kepware.com/

Appendix

Device	Range		T	DVP address	Modbus address	Effective		
			Туре	(Hex)	(Dec)	ES/EX/SS	SA/SX/SC	EH
S	000~255		bit	0000~00FF	000001~000256		0~1024	0~1024
S	256~511		bit	0100~01FF	000247~000512	0 127		
S	512~767		bit	0200~02FF	000513~000768	0~127		
S	768~102	3	bit	0300~03FF	000769~001024			
Х	000~377		bit	0400~04FF	101025~101208	0 177	0~177	0~377
Y	000~377		bit	0500~05FF	001281~001536	-0~1//		
Т	000 255		bit	0600~06FF	001537~001792	0.127	0. 255	0.055
	000~255		Word	0600~06FF	401537~401792	-0~127	0~255	0~255
М	000~255		bit	0800~08FF	002049~002304			0,4005
М	256~511		bit	0900~09FF	002305~002560			
М	512~767		bit	0A00~0AFF	002561~002816	0 1270	0 4005	
М	768~1023		bit	0B00~0BFF	002817~003072	-0~1279	0~4095	0~4095
М	1024~12	79	bit	0C00~0CFF	003073~003328			
М	1280~15	35	bit	0D00~0DFF	003329~003584			
М	1536~17	91	bit	B000~B0FF	045057~045312			
М	1792~2047 2048~2303		bit	B100~B1FF	045313~045568			
М			bit	B200~B2FF	045569~045824			
М	2304~25	59	bit	B300~B3FF	045825~046080		0~4095	0~4095
М	2560~28	15	bit	B400~B4FF	046081~046636	0~1279		
М	2816~30	71	bit	B500~B5FF	046637~046592			
М	3072~332	27	bit	B600~B6FF	046593~046848			
М	3328~35	83	bit	B700~B7FF	046849~047104			
М	3584~3839		bit	B800~B8FF	047105~047360			
М	3840~4095		bit	B900~B9FF	046361~047616			
	0~ 16-bit	bit	0E00~0EC7	003585~003784	0.125	0.100	0 100	
a		16-bit	Word	0E00~0EC7	403585~403784	-0~127	0~199	0~199
С			bit	0EC8~0EFF	003785~003840			
	200~255 32-bi		Dword	0EC8~0EFF	403785~403840	232~255	200~255	200~255

Modbus address table of Delta DVP series PLC.

Davias	Range	T	DVP address Modbus address		Effective			
Device		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	1			
D	512~767	Word	1200~12FF	404609~404864				
D	768~1023	Word	1300~13FF	404865~405120	1			
D	1024~1279	Word	1400~14FF	405121~405376	0 1011			
D	1280~1535	Word	1500~15FF	405377~405632				
D	1536~1791	Word	1600~16FF	405633~405888		0 4000	0,0000	
D	1792~2047	Word	1700~17FF	405889~406144	-0~1311	0~4999	0~9999	
D	2048~2303	Word	1800~18FF	406145~406400	1			
D	2304~2559	Word	1900~19FF	406401~406656	1			
D	2560~2815	Word	1A00~1AFF	406657~406912	1			
D	2816~3071	Word	1B00~1BFF	406913~407168	1			
D	3072~3327	Word	1C00~1CFF	407169~407424	1			
D	3328~3583	Word	1D00~1DFF	407425~407680	1			
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 1011		0,0000	
D	5376~5631	Word	9500~95FF	437889~438144	-0~1311	0~4999	0~9999	
D	5632~5887	Word	9600~96FF	438145~438400	1			
D	5888~6143	Word	9700~97FF	438401~438656	1			
D	6144~6399	Word	9800~98FF	438657~438912	1			
D	6400~6655	Word	9900~99FF	438913~439168	1			
D	6656~6911	Word	9A00~9AFF	439169~439424	1			
D	6912~7167	Word	9B00~9BFF	439425~439680	1			

Device	Range	Туре	DVP address	Modbus address (Dec)	Effective			
			(Hex)		ES/EX/SS	SA/SX/SC	EH	
D	7168~7423	Word	9C00~9CFF	439937~440192		0~4999		
D	7424~7679	Word	9D00~9DFF	440193~440448	1			
D	7680~7935	Word	9E00~9EFF	440449~440704				
D	7936~8191	Word	9F00~9FFF	440705~440960				
D	8192~8447	Word	A000~A0FF	440961~441216				
D	8448~8703	Word	A100~A1FF	441217~441472	0 1211		0,0000	
D	8704~8959	Word	A200~A2FF	441473~441728	-0~1311		0~9999	
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	9984~9999	Word	A700~A70F	442753~443008	7			



