



Technical Announcement

DELTA ELECTRONICS, INC. Electromechanical B.U.

Product	HMI PLC	Models	DOP-B All DVP PLC	Security Classification	<input checked="" type="checkbox"/> General <input type="checkbox"/> Confidential <input type="checkbox"/> Top-secret
				ECN No.	NA
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Receiving Div.	TW Sales & PM, DGC, DEU, DPR, DES, DEJ,DEK,DEJ				

Purpose:

How to transmit WPL program via USB Disk between DOP-B HMI and DVP PLC.

Explanation:

The document will show you How to transmit WPL program via USB Disk between DOP-B HMI and DVP PLC include several modes.

- A. Without password function 【USB→PLC】
- B. Without password function 【PLC→USB】
- C. With password function 【enable limited times. USB→PLC】
- D. With password function 【enable limited times. PLC→USB】
- E. With password function 【PLC ID and program ID. USB→PLC】
- F. With password function 【PLC ID and program ID. PLC→USB】

Note:

1. The version of Screen Editor should be V2.00.12 (include) or above.
The DOP-B HMI firmware should be V2.0120 (include) or above.
2. The version of WPLSoft should be 2.11.60 (include) or above.
All of DVP series PLC firmware version please refers the table with page 13.

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1. Format USB Disk

The DOP only could accept the **FAT32** format, please prepare a USB Disk and format it.

☞ You could format this USB Disk to FAT32 on PC.

☞ You also could format this USB Disk to FAT32 on DOP. The procedure please follow up below steps.

Press SYS button more than 3 seconds and go to system page

Choice the function with **【System Setting】**



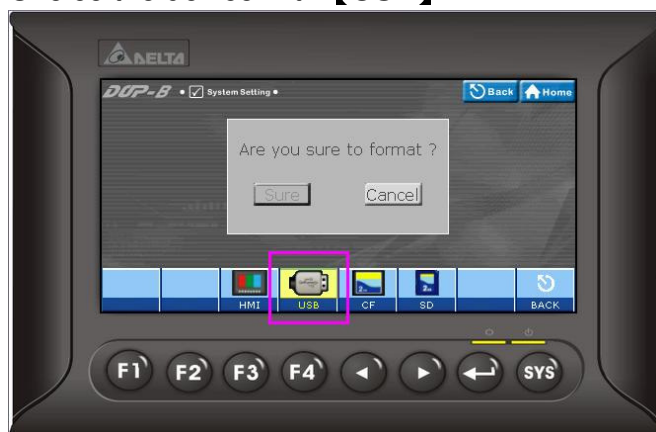
Choice the function with **【File Manager】**



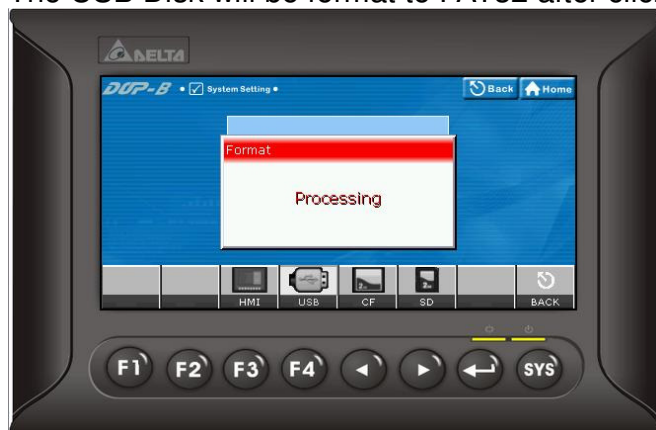
Choice the function with **【Formatting】**



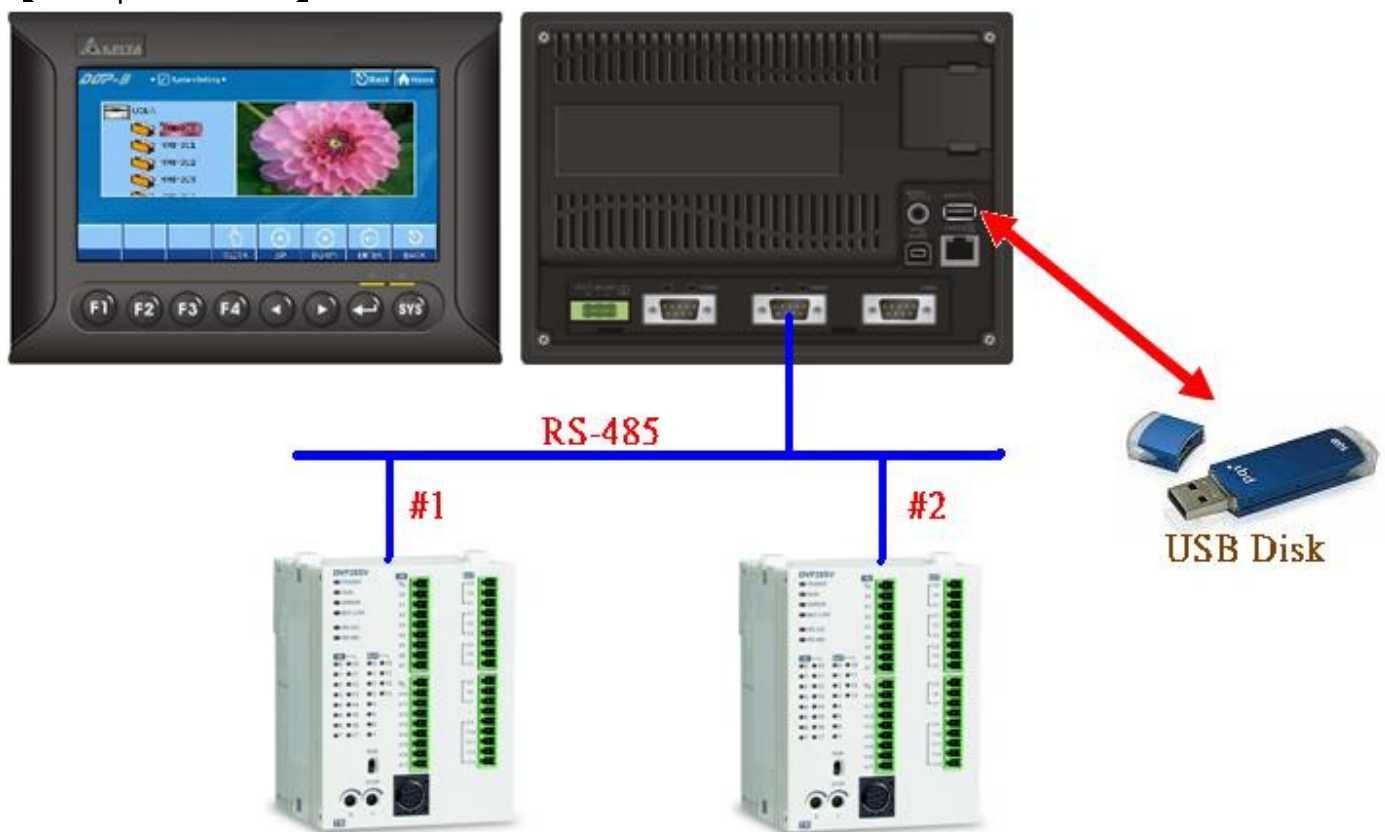
Choice the device with 【USB】



The USB Disk will be format to FAT32 after click with“Sure”



【Example Structure】



2. Without password function 【USB→PLC】

☞ Put USB Disk into HMI USB Host after you save WPL program from PC to USB Disk.

※ The file must be named as DVP-xxx.dvp (xxx : 000 - 999)

☞ Go to HMI system page and choice the function with Up/Download



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☞ Press the Right button until you can choose the function with "Transfer Mode"



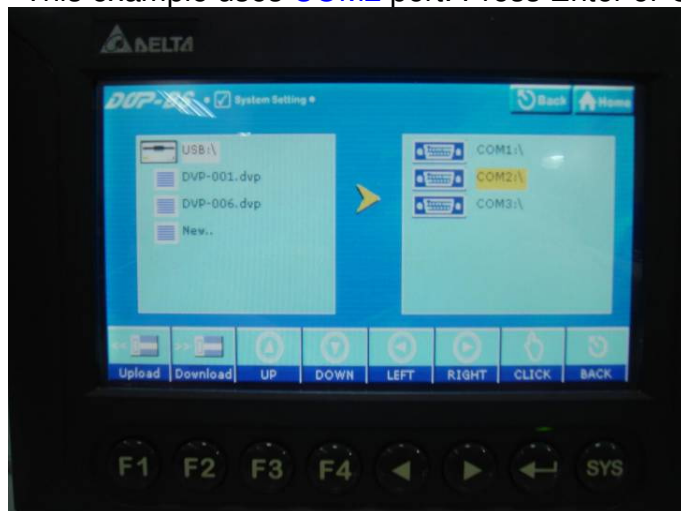
☞ In this Transfer Mode you will see the yellow area on USB Device
You need to press the button with Enter or CLICK and HMI will search DVP PLC Program.



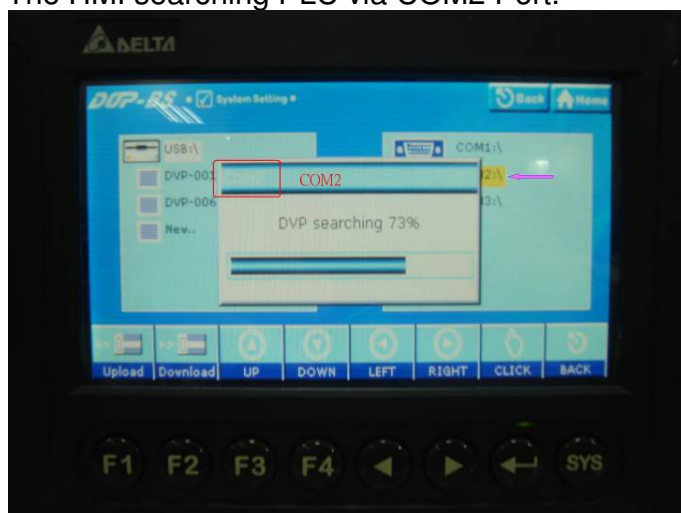
☞ The HMI showing two DVP PLC program files, one is [DVP-001.dvp](#) and the others is [DVP-006.dvp](#)
The yellow area will be shift to right after press the Right button.



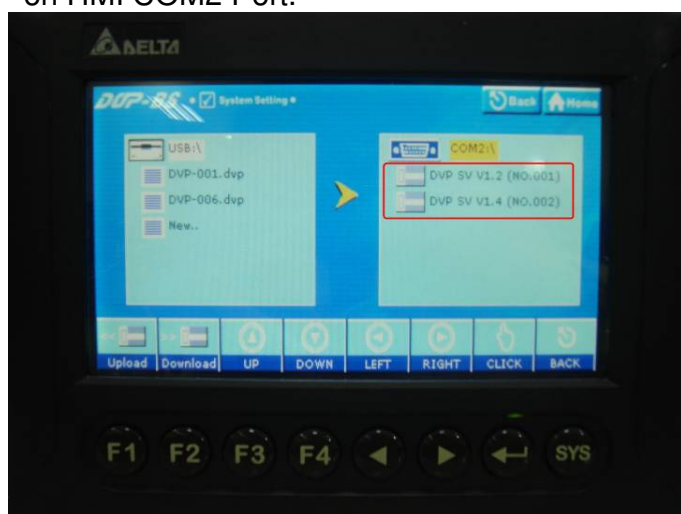
- ☞ You can see the yellow area on HMI COM Ports. Use Up or Down button to choice the communicating port between HMI and PLC.
This example uses **COM2** port. Press Enter or **CLICK** to search PLC.



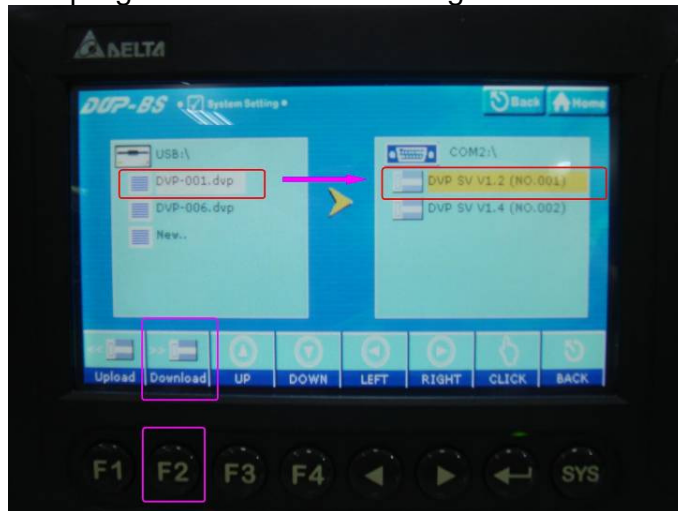
- ☞ The HMI searching PLC via COM2 Port.



- ☞ You will see the two PLCs with **DVP-SV V1.2(NO.001)** and **DVP-SV V1.4(NO.002)** on HMI COM2 Port.



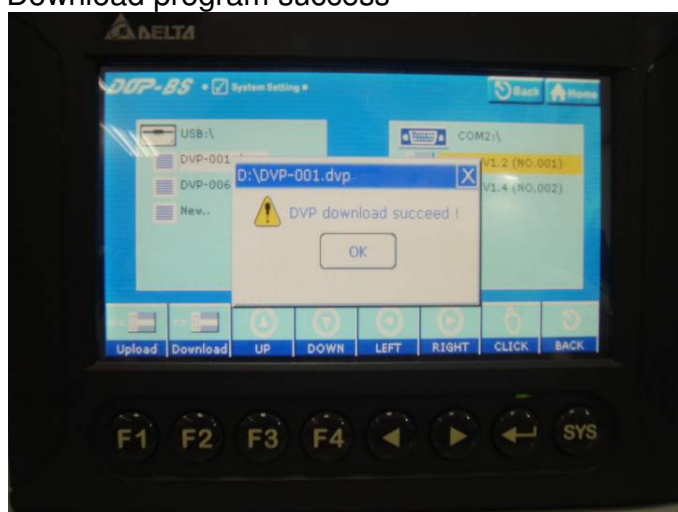
- ☞ Copy program with DVP-001.dvp from USB Disk to PLC(DVP-SV V1.2(NO.001))
Choice the DVP-001.dvp file with left and DVP-SV V1.2(NO.001) PLC with right
The program will be downloading after excute“Download”or F2 button.



- ☞ Download program from USB Disk to PLC



- ☞ Download program success



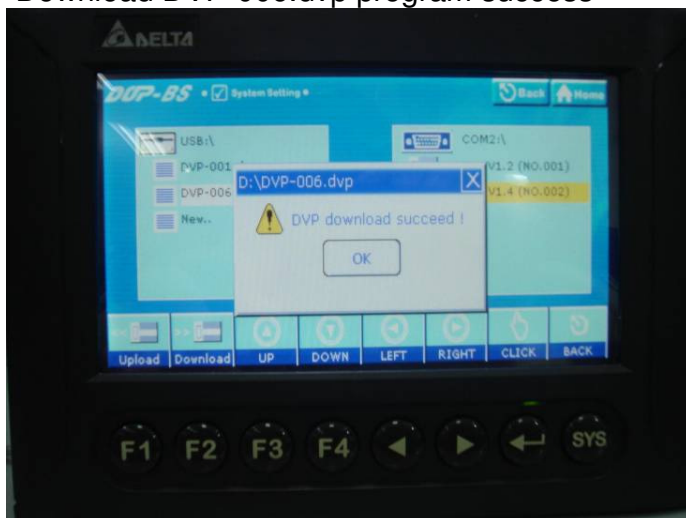
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- ☞ Copy program with DVP-006.dvp from USB Disk to PLC(DVP-SV V1.4(NO.002))
Choice the DVP-006.dvp file with left and DVP-SV V1.4(NO.002) PLC with right
The program will be downloading after excute“Download”or F2 button.



- ☞ Download DVP-006.dvp program success

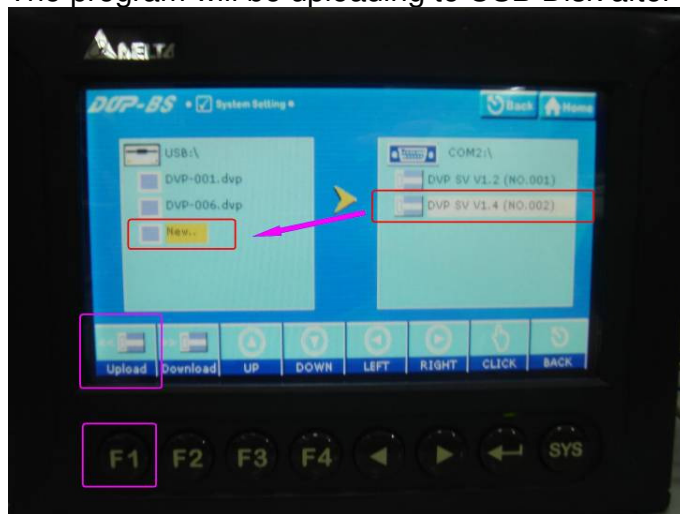


3. Without password function 【PLC→USB】

☞ Copy program from PLC(DVP-SV V1.4(NO.002)) to USB Disk

Choice the **New file** with left and DVP-SV V1.4(NO.002) PLC with right

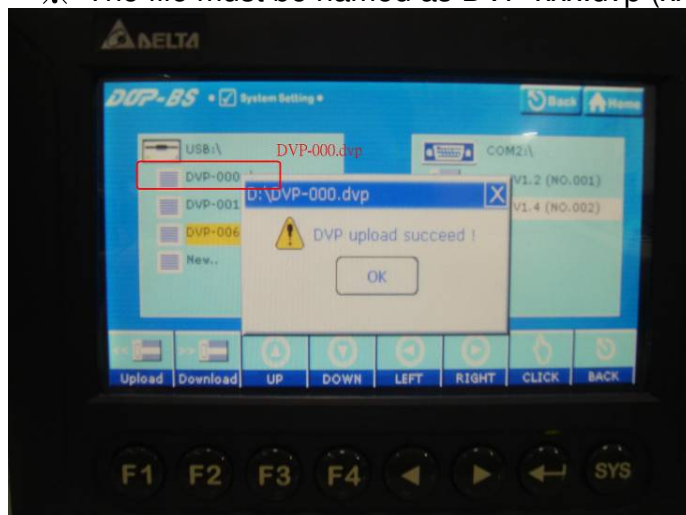
The program will be uploading to USB Disk after excute“Upload”or F1 button



☞ Upload program success

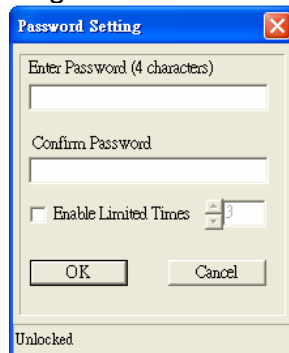
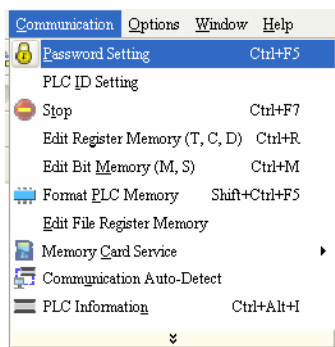
You can see the new file with **DVP-000.dvp** on the left.

※ The file must be named as DVP-xxx.dvp (xxx : 000 - 999)



4. With password function 【enable limited times. USB→PLC】

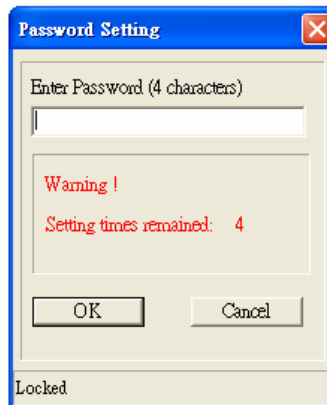
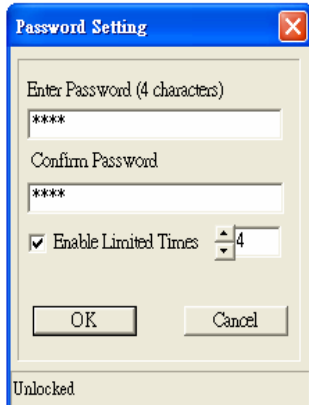
⇨ Open WPLSoft and use “Password Setting” function.



⇨ The number of setting password is up to 4 bits, this example also use the function with “Enable Limited Times”.

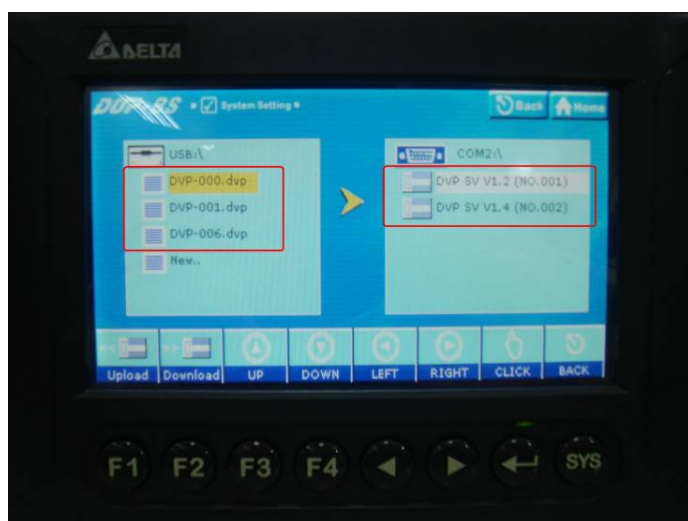
⇨ The PLC will be lock situation after you type password.

⇨ The PLC will be lock situation and only could back to factory default setting while entry wrong password more than 4 times in this case.



⇨ Go to system page on HMI and copy program with DVP-000.dvp from USB Disk to PLC(DVP-SV V1.2(NO.001))

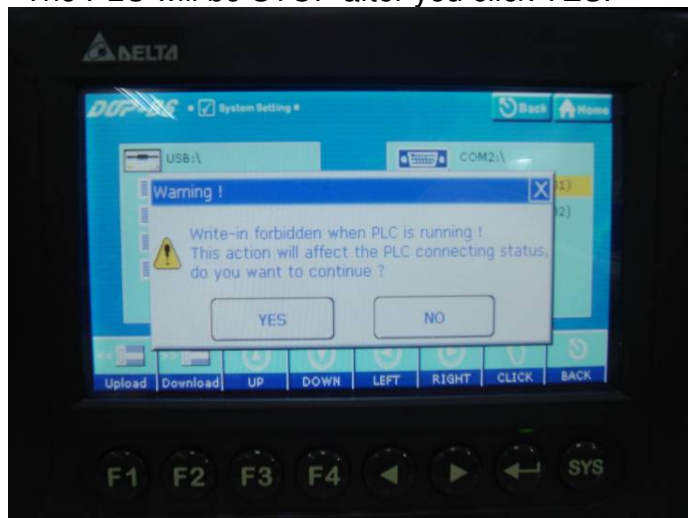
Choice the DVP-000.dvp file with left and DVP-SV V1.2(NO.001) PLC with right
The program will be downloading after excute “Download” or F2 button.



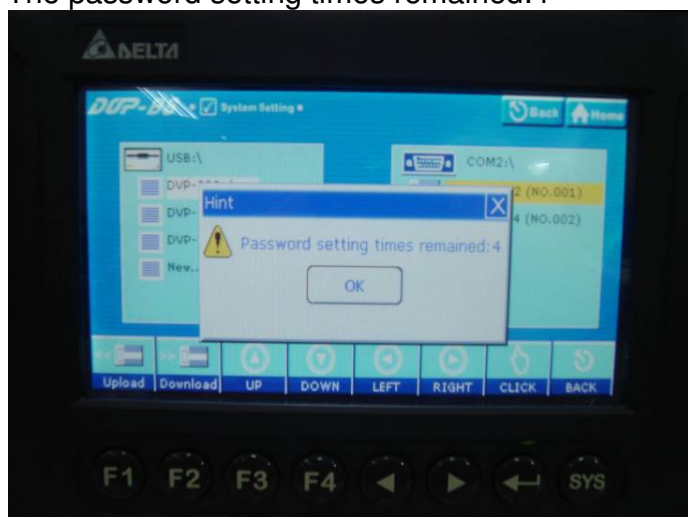
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- ☞ The HMI show error message that PLC at RUN status.
The PLC will be STOP after you click YES.



- ☞ The password setting times remained:4



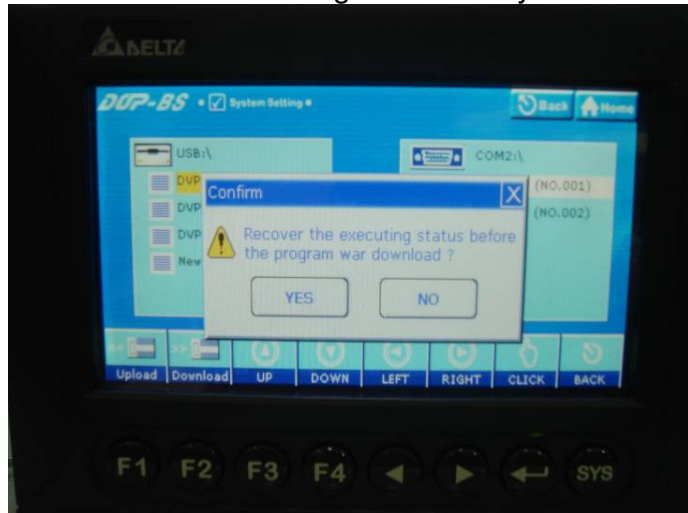
- ☞ Entry password



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☞ The PLC back to running mode after you click YES.



☞ The PLC will be lock after entry wrong password more than 4 times in this case. Meanwhile you could not transmit PLC program anymore only back to factory default setting.



☞ Download program success



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※If the PLC has password, then the HMI will need to enter the right one when copy program from PLC to USB Disk.

You can not copy program from PLC to USB Disk if you lost password.

※We show all of Delta PLC series support password function list with below table.

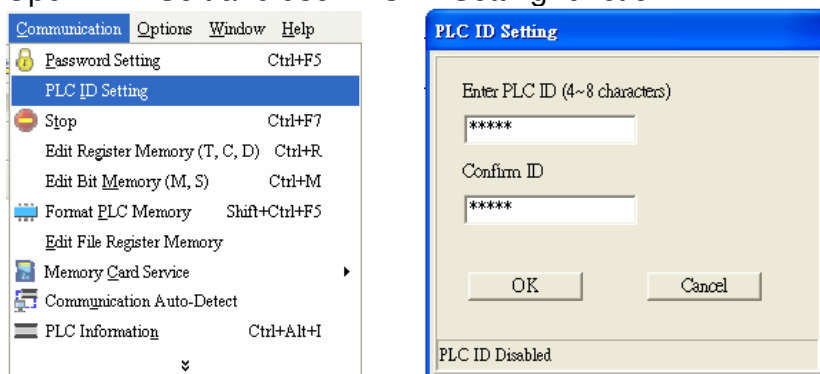
Please make sure the PLC firmware version if you want to use password function.

※HMI Transfer Mode only supports *.dvp file to up/download instead of sub-program/Ladder diagram/SFC/Note of device name/Row note/Non-volatile data/Label structure/Symbol structure, and so forth.

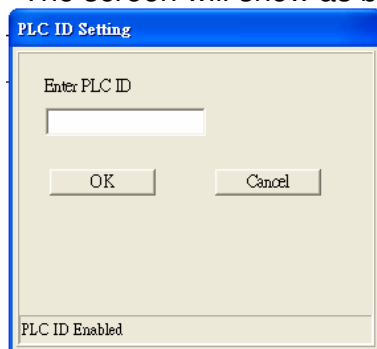
PLC Model	Supporting limitation of password checking frequency	Supporting limitation of PLC identification code
ES	X	X
ES2	V1.0 or above	V1.0 or above
EX	X	X
EC	X	X
SS	X	X
SA	V 1.7 or above	V 1.7 or above
SX	V 1.7 or above	V 1.7 or above
SC	V 1.5 or above	V 1.5 or above
SV	V 1.2 or above	V1.3 or above
EH	X	X
EH2	V 1.1 or above	V1.3 or above
EH2-L	V1.0 or above	V1.0 or above

5. With password function 【PLC ID and program ID. USB→PLC】

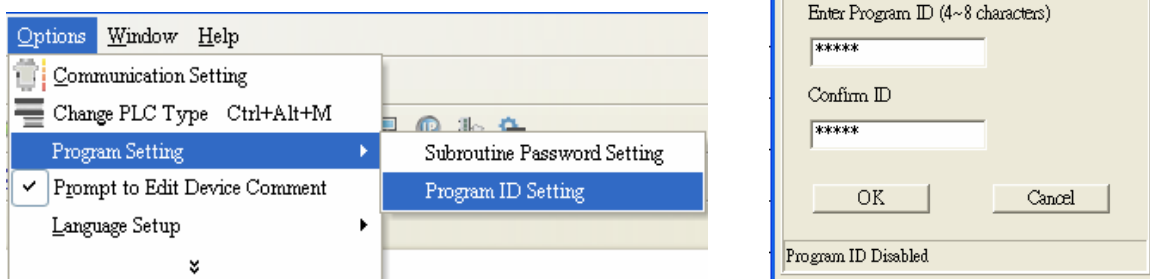
☞ Open WPLSoft and use“PLC ID Setting”function.



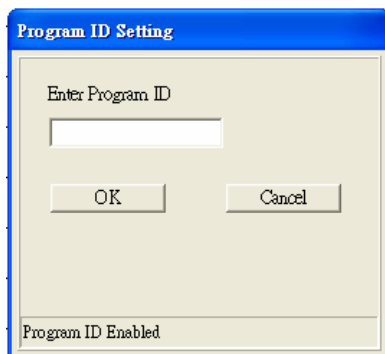
☞ The setting number of password is from 4 to 8 bits characters. for instance: 1 2 3 4 5.
The screen will show as below after press OK button.



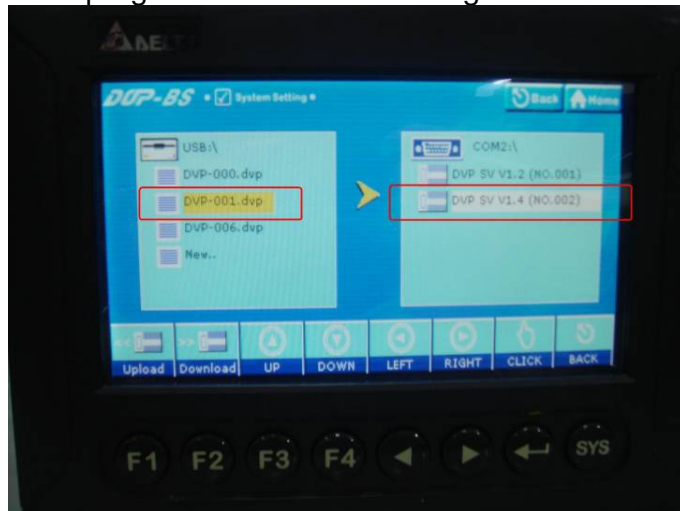
☞ Program ID setting



☞ The setting number of password is from 4 to 8 bits characters. for instance: 1 2 3 4 5.
The screen will show as below after press OK button.



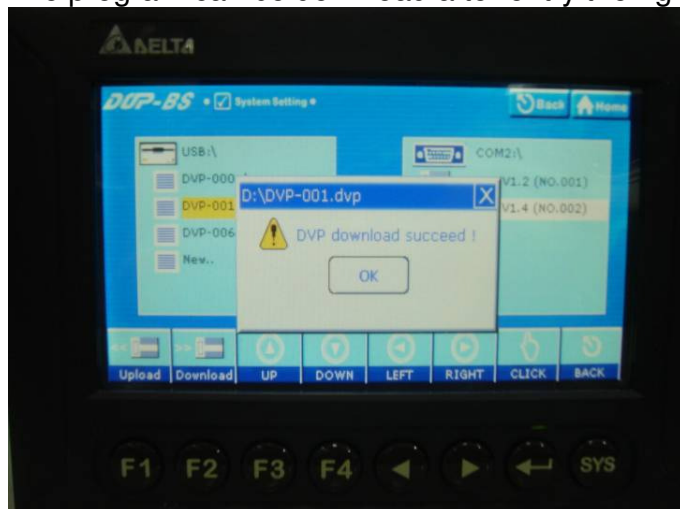
- ☞ Go to system page on HMI and copy program with DVP-001.dvp from USB Disk to PLC(DVP-SV V1.4(NO.002))
Choice the DVP-001.dvp file with left and DVP-SV V1.4(NO.002) PLC with right
The program will be downloading after excute“Download”or F2 button.



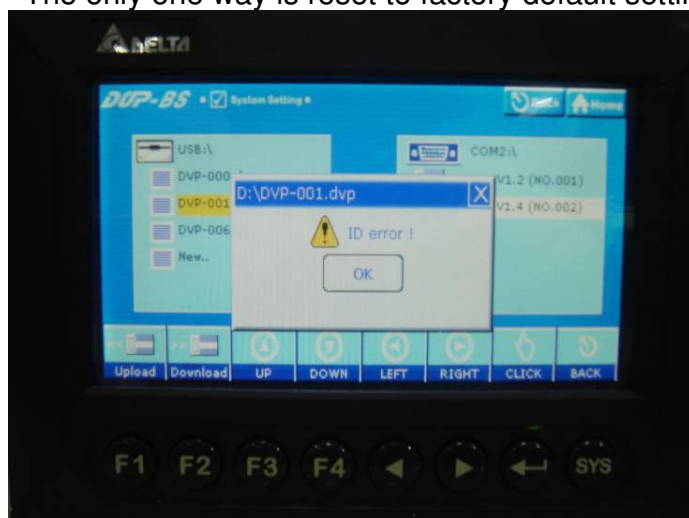
- ☞ Entry Program ID



- ☞ The program can be download after entry the right password.



- ☞ The program can not be download after entry the wrong ID password.
- ☞ You can not upload or download program if you lost ID password.
The only one way is reset to factory default setting.



- ※ If the PLC has ID password, then the HMI will need to entry the right one when copy program from PLC to USB Disk.
You can not copy program from PLC to USB Disk if you lost ID password.
- ※ We show all of Delta PLC series support password function list with below table.
Please make sure the PLC firmware version if you want to use password function.
- ※ HMI Transfer Mode only supports *.dvp file to up/download instead of sub-program/Ladder diagram/SFC/Note of device name/Row note/Non-volatile data/Label structure/Symbol structure, and so forth.

PLC Model	Supporting limitation of password checking frequency	Supporting limitation of PLC identification code
ES	X	X
ES2	V1.0 or above	V1.0 or above
EX	X	X
EC	X	X
SS	X	X
SA	V 1.7 or above	V 1.7 or above
SX	V 1.7 or above	V 1.7 or above
SC	V 1.5 or above	V 1.5 or above
SV	V 1.2 or above	V1.3 or above
EH	X	X
EH2	V 1.1 or above	V1.3 or above
EH2-L	V1.0 or above	V1.0 or above