



# Technical Announcement

IABG, DELTA ELECTRONICS, INC

Product	DVP Series PLC	Applicable Model	EH3 EH3-L SV2	Confidentiality Level	<input checked="" type="checkbox"/> General <input type="checkbox"/> Classified <input type="checkbox"/> Top secret
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Object: The firmware of DVP-EH3/DVP-EH3-L/ DVP-SV2 is updated (V2.04 → V2.06).

Purpose: The functions which are modified and the functions which are added are described.

## Description:

### 《New Functions and Instructions》

1. Add X0~X17 single points for input filter.  
M1630 is for enabling (ON) / disabling (OFF) the filter function on single points X0~X17.  
M1631 is the flag for changing the filter time from OFF to ON on single points X0~X17.  
It is required to work with D1970 (for X0), D1971(for X1) ...~ D1985 (for X17) for setting up the filter time on every single point. Refer to the attachment for more details.
2. In the past, to update the positions of the high-speed outputs can only be done through high-speed instructions. Add flags M1640~M1643 to work with the instruction REF to update the positions of the high-speed outputs (Y0, Y2, Y4, Y6) immediately. Refer to the attachment for more details.
3. Add a new flag M1019. When M1019 is ON and the power supply is steady on the PLC, the error LED indicator will blink rapidly in every 0.2 seconds. When M1019 is OFF (by default), no error will be shown when the power supply is not steady and when the power supply is back to normal, it will keep running.
4. Add a new instruction DTM to work with parameter K39 to read the imprinted serial number of the product. This function can be used for locating the designated PLC through the serial number.

### 《Modified Functions》

1. Issue: When using the MODRW instruction in the timer interrupts, the X21~X37 may act incorrectly.  
Solution 1: Use the MODRW instruction in the PLC main program.  
Solution 2: Contact the company or the technicians from the agents for a firmware upgrade (V2.05 or later versions).
2. Issue: When the high-speed axis 3 (Y4/Y5) works with the mark function, the mask function for the range (D1154/D1155) will be invalid.  
Solution: Contact the company or the technicians from the agents for a firmware upgrade (V2.05 or later versions).
3. Issue: When the instruction DPTPO is only executed in the output of the first segment, after the output is done, the completion flag will not be ON.  
Solution 1: Change the output to the first and second segment.  
Solution 2: Contact the company or the technicians from the agents for a firmware upgrade (V2.05 or later versions).
4. Issue: Download the program with the instruction LDZ which has been complied logically to the PLC, but the PLC responds with a syntax error.  
Solution: Contact the company or the technicians from the agents for a firmware upgrade (V2.05 or later versions).
5. Issue: When the input is a designated DOG point in the instruction DZRN, and the following external input points X0, X4, X10 and X14 are also activated, chances are some of the external input interrupts will be disabled.  
Solution: Contact the company or the technicians from the agents for a firmware upgrade (V2.05 or later versions).

6. Issue: While the instruction RS is in the mode of sending but not receiving, M1128 is not cleared to OFF, after the sending is complete.  
Solution: Contact the company or the technicians from the agents for a firmware upgrade (V2.05 or later versions).
7. Revise the instruction SCLP which is used for dividing by 0. In the past, it can set not to operate the act of dividing by 0. Now it is revised not only not to operate the act but also to store the error messages of dividing by 0 (0x0E19) in D1067 and the error address in D1068.

#### 《Deleted Instruction》

In order to increase the firmware space, DSPA instruction is deleted on SV2 series PLC. for EH3 and EH3-L, the instruction DSPA has already been deleted on V2.04.

#### 《Official Effective Date》

The new firmware will be released on July 20, 2017. (W1730)