

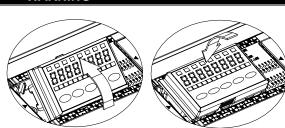


DVPDU-01 Digital Setup Display

Instruction Sheet

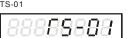
WARNING

A Please shut down the MPU of the PLC while installing the DU-01. The DU-01 is connected high-density connector. Therefore, please see the figures on the right for proper operation, so as to avoid damage



INTRODUCTION

DU-01 Digital Setup Display has two operation modes, TS-01 and TC-01. The switch for mode selection is at the back of the DU-01. Factory setting is TS-01 mode. The current operation mode shows at every time of power up.

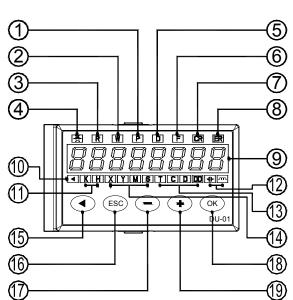






- In **TS-01** mode, DU-01 (specified as TS-01 hereof) has the following functions:
 - Read/Write of both internal devices of PLC (eg. perpetual calendar, bit devices (X, Y, M, S) and word devices (T, C, D)) and the Control Register (CR) inside of the expansion units.
 - · Supports the read/write of 32-bit data register.
 - Sets Start-up display and power save mode.
 - · Monitors the devices.
 - If connected with accessory cable to ES-series without perpetual calendar, the Time Display will start from 00-00-00 calculated by the microprocessor of DU-01 (timing error may occur).
 - · Gives RUN-STOP command to the PLC.
- 2. In TC-01 mode, DU-01 (specified as TC-01 hereof) has the following functions for DVP all series:
 - Read/write the program P, data register D and file register F from PLC.
 - · Copies program and data.
 - · Supports the password protection of the PLC.

Overview of the Product - Names of Parts



(TC-01) 2 W: write (WR) indication (TC-01) R: read (RD) indication (TC-01) "In communication" indication D: Data Register indication (TC-01) F: File Register indication (TC-01) CR: Control Register indication (Expansion Module) ER: Error message indication Display Area 10 Enter button indication K (Decimal), H (Hexadecimal) indication Contacts & coils of timer 12 counter indications Word devices T, C, D, DD (32-bit) 13 indication Bit devices X, Y, M, S indication Digit backspace / Run (TC-01) 16 Back to previous status Enter a number or select a device 18 Confirm

Enter a number or select a

P: program area indication

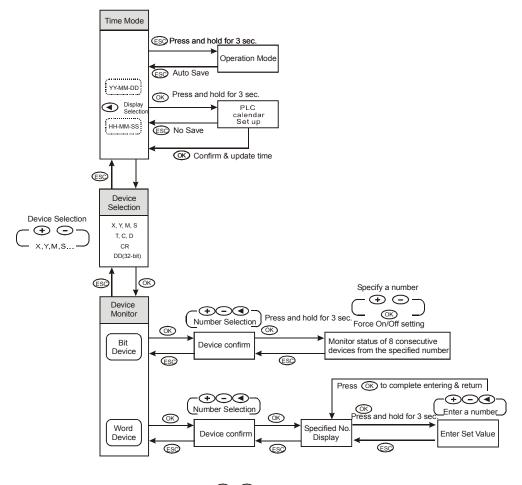
INSTALLATION & WIRING Direct mounting to the expansion slot in the MPU of 2. Connecting to DVP the EP/EH series series PLC via accessory cable Thease shut down the MPU of the PLC while installing the DU-01. The DU-01 is connected via a high-density connector Therefore, please see the above figures for proper operation

Put the face-up DU-01 slantly in the expansion slot, than push it down in arrow direction. DO NOT push it down vertically, so as to avoid damage

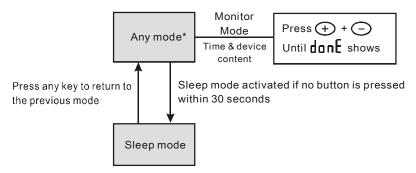
(No need to shut down the MPU)

TS-01 OPERATION

- Switch DU-01 to TS-01 mode. (Please see the back of the DU-01)
- 2. Main Process



3. Start-up display mode setting (press + buttons simultaneously)

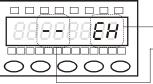


*Note: not include system operation mode setting

4. Please see the back page for detail information about the process of each mode.

TC-01 OPERATION

1. Switch the DU-01 to TC-01 mode (please see the back of the DU-01), and select RD (to read P, D and F in the MPU of PLC) or WR (to write the data in P, D, F of DU-01 to the MPU



Indication of the connected MPU mode

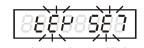
Indication of internal data storage mode

Note: P: Program, D: Data register, F: File register

2. TC-01 Password Key Setting

Password key setting of TC-01 can be set via WPLSoft. The purpose is to read/write to the key-locked PLC as long as the password setting is identical to the one in the PLC. To unlock the password key setting, please use WPLSoft as well.

- a) Password Key Setting
- In RD or WR mode, press ESC button and hold for 3 seconds or more to enter password setting. See the right figure:
- Open WPLSoft ⇒ [Setting] ⇒ [TC-01 password key setting]. Select [Enter TC-01 password key], and operate as instructed.
- After setting, the display is shown as right figure. (KEY SET), then press ESC to exit.



- b) TC-01 has password key setting, therefore, only if the PLC has no password protection or with the same password with TC-01 can the writing proceeds. It also writes the password to the PLC for
- c) Password key clear (KEY CLR): Same with the above operation. Open WPLSoft, select [TC-01 password key clear], and operate as instructed
- 3. Clear P, D, F of TC-01: select the device (P, D or F) to be cleared, press + simultaneously, then press ESC.
- 4. RD mode description:

