Product	AMD	Type	C2000 CP2000 CH2000 CT2000	Security Level	☑General ☐High ☐Top
				No.	N/A
Issued by	Global SC	Author	John Zuo	Release Date	22nd May 2012

KPC-CC01 TPEditor Function

Devices and tools:

Inverter: VFD007C23A, Firmware V9.019(12201), PG:EMC-PG01U

PM motor: ECMA-C30602ES

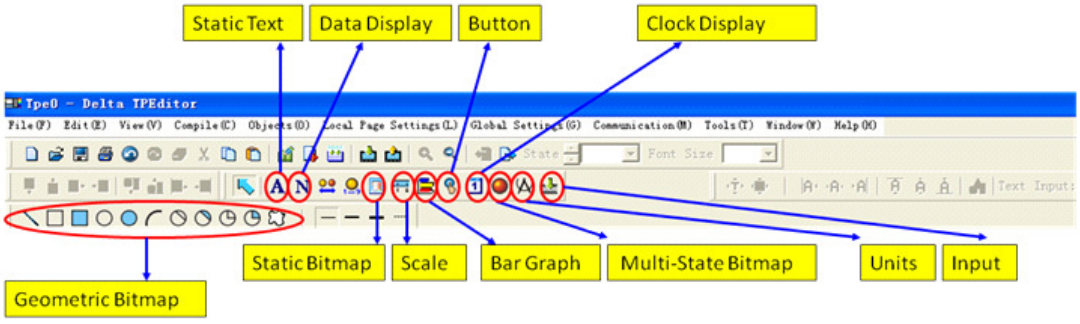
Software: TPEditor 1.40

KPC-CC01 Firmware: V1.011 (3041)

IFD:IFD6530

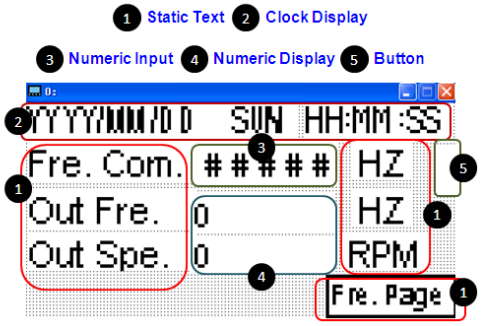
Operation Steps:

1. Refer to the <ECMA-C3 testing based on C2000> for realizing the C2000 driving ECMA motor.
2. Open TPEditor 1.40 software. We must understand which function we can use in C2000 KPC-CC01 TPEditor. We can see these functions as below from the left to the right. And the manual has a very detailed explanation for them, so please refer to the C2000 manual for these function explanations.

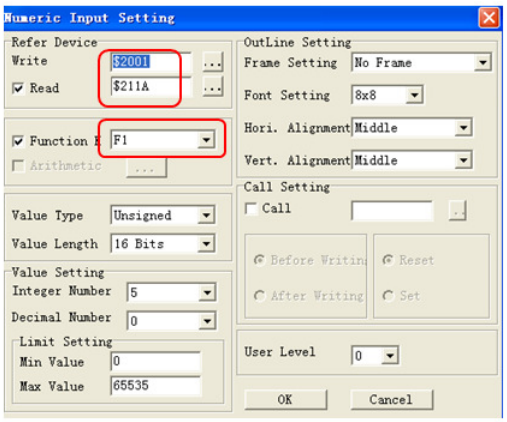


3. Setting how many TP pages you want and choose whether you want the boot page. In this case, I set 3 TP pages and choose Boot page.

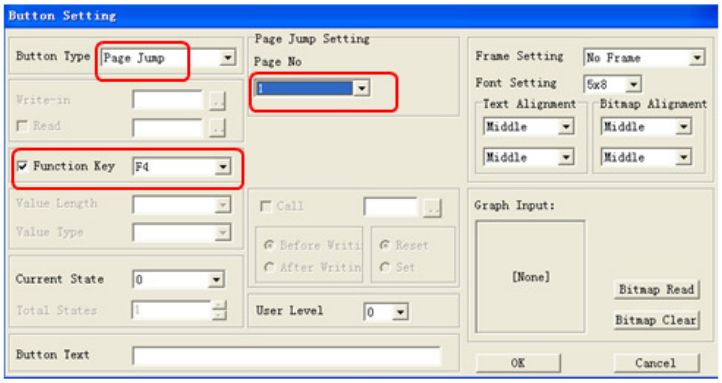
4. In the page 0, I used the Static Text, Clock Display, Numeric Input, Numeric Display and Button.



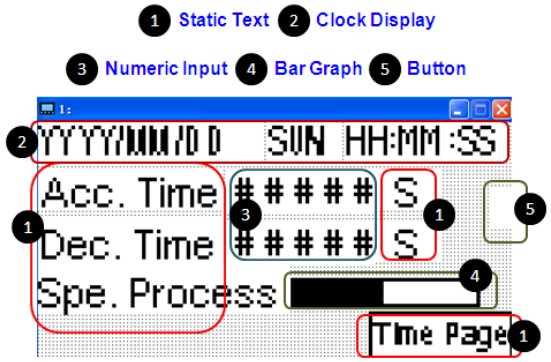
- Static Text is very simple, just choose the font type and size.
- Clock Display is based on your KPC-CC01 time setting. As long as your time setting is correct, the clock display will be correct.
- Numeric Input supports normal parameters but not H20XX, but only frequency command is one exception. If we want to input frequency command, please double click the “Numeric Input”, and then set write blank H2001, read blank H211A. Finally, Function Blank can be chosen any button in your KPC-CC01 for enabling the “numeric input” in your KPC-CC01, and I chose F1 here.



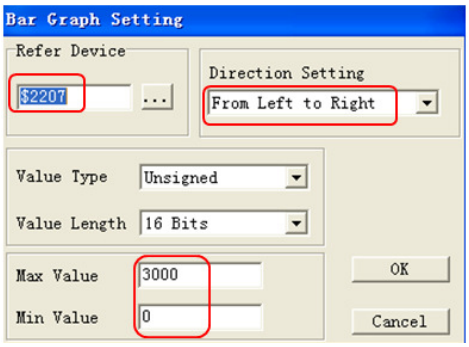
- Numeric Display only supports H22XX but not H21XX, and no any exception. Here, I chose H2202 namely output frequency and H2207 namely motor speed.
- Button in KPC-CC01 only supports Page Jump function. The Button Type is Page Jump, The Function Key can be F1~F4, and I chose F4, the page No. you want to jump is NO.1.



5. In the page 1, I used the Static Text, Clock Display, Numeric Input, Bar Graph and Button.

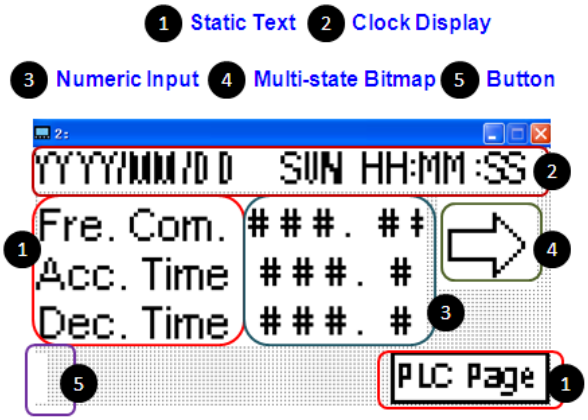


- Almost every function is the same as step 4 only Bar Graph. Double Click Bar Graph, I chose the refer device is H2207 namely motor speed, the max value and min value must be based on the practical motor speed range namely 0~3000 RPM in this case, Direction Setting is from left to right in this case. Hence, this bar graph can display one trend from left to right based on the motor speed value and when it is 3000 RPM, the bar is full, when it is 0 RPM, the bar is empty.

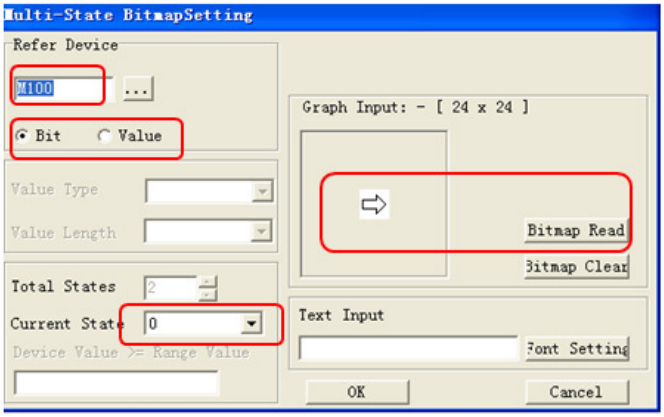


//if you don't use the Inverter PLC built-in, the TPEditor function is over and we can go to step 7 directly. But if you want to use PLC inside Inverter, TPEditor function also can support operating the data of PLC inside Inverter. And we can see the step 6 for referring, and then go to step 7.//

6. In the page 2, I used the Static Text, Clock Display, Numeric Input, Multi-state Bitmap and Button.



- Almost every function is the same as step 4 only Multi-State Bitmap. Multi-State Bitmap can display the PLC bit information like M or X. Double click the Multi-state Bitmap, the refer device is what bit you want to display, the total states is 2 (0 or 1) and you can choose current state is 0 or 1, one state can have one graph input or text input and the graph input can read the graph based on bitmap format.



Please kindly refer to the TPEditor Function Program (including PLC, TPEditor files)

7. Wiring IFD6530, PC and KPC-CC01 in one net and then download the TPEditor Function to KPC-CC01.

And then choose Menu of KPC-CC01 and go to Number 13 namely PC link, then choose TPEditor. The connection between KPC-CC01 with TPEditor software is OK. We can download program.

Attentions:

A. Why don't the integer and decimal setting work in the numeric input?

When you use the Numeric Input, the integer and decimal setting are no use if you want to input VFD parameters. VFD parameters have the stable integer and decimal setting from Inverter control board, so they are nothing to do with your numeric input integer and decimal setting.

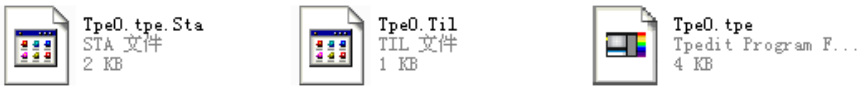
The Numeric Input integer and decimal setting are related to the value of PLC inside inverter, but the KPC-CC01 firmware must be higher than V9.030 5102 (after v1.011). Otherwise, it is also no use.

B. Why does numeric display only support H22XX not H21XX?

Numeric Display only can support H22XX. H21XX is not supported since H22XX can cover all H21XX displays and more than them.

Besides, for Numeric input, it can support normal inverter parameters like 01-12 (01-0C) but not H20XX. However, only frequency command H2001 is one exception.

C. Why are there three different type files when we save the TPEditor program?



There are 3 types when we save TPEditor program, and they are *.Sta, *.Til, *.Tpe.

- *. Sta is for boot page saving. So if you want to open the boot page, this file must be there.
- *. Tpe is for main page saving. So if you want to open the main page, this file must be there. Besides, TPEditor software only can open this file, *.Sta file can't be opened but the boot page will be opened too as long as *.Sta is in the same folder with *.Tpe and they have the same file name.
- *. Til is no use for KPC-CC01 TPEditor function. This file is for normal TPEditor not KPC-CC01. So you can delete it, but it will be there again when you save TPEditor program again.

D. Why can't we upload the program from KPC-CC01 to the TPEditor software?

Considering customer don't want to any one can upload the TP program from KPC-CC01, so R&D disabled the uploading function.

E. Can we use TPEditor Function for strengthening the Pr00-25 of C2000 namely User Defined Characteristics?

Yes, absolutely.

User Defined Characteristics is very practical function since it can change the unit, and it is very popular for the application in Pressure, Flow like Pump.

However, Pr00-25 unit only can support HZ, RPM, Kg, %, no anything else like Bar, Atm, Psi, Kpa, CFM, m^3, ^0C and etc..

Hence, we can use TPEditor Function for realizing these units application.