

25) Parameter related to service

Parameter No.	Contents
8000	Parameters setting which can not be specified by setting input are forbidden or allowed. CRT screen is automatically changed or not to the error message screen when an error is caused. When parameter PWE is 1, an error is indicated or not.
8010	When power is turned off, parameter at data number 8000 is set to 0 or maintained.

5.5 PMC Data Setting and Display (PCPRM)

Parameters of timer, counter, keep relay, data table, and positioning module are set and displayed from CRT/MDI unit.

For this operation, depress soft key PCPRM of PC basic menu to bring up the following menu.

TIMER	COUNTER	KEEPRL	DATA	POS
-------	---------	--------	------	-----

In case of PMC-I, NC must be set to the MDI mode or emergency stop status for data setting.

5.5.1 Timer setting and display

The variable timer time is set and displayed. If timer screen does not appear, depress TIMER soft key to bring up the timer screen.

Timer No. (1 - 40)	<u>TIMER</u>			
	NO	DATA	NO	DATA
	001	2000	016	1000
	002	10000	.	.

	015	0	030	0

Fig. 5.5.1 Timer screen

Timer No.	Specifications	Minimum setting time	Maximum Setting time
1 - 8		50 ms	1638.3 sec
9 - 40		8 ms	262.136 sec

1) Setting and display from CRT/MDI unit

- ① For timer setting in the case of PMC, set NC to MDI mode or emergency stop status, and turn on the NC parameter for writing parameters (Data No. 8000, PMW). This operation is not required for display.
- ② Display the timer screen (see Fig. 5.5.1) by depressing the **PCPRM** soft key of PMC basic menu.
- ③ Bring data of necessary timer No. on the screen by depressing page key **↓**. Stop ④ and subsequent steps are required for timer setting.
- ④ Set the cursor to the setting point on the screen by the cursor key operation.
- ⑤ The timer is set by depressing **INPUT** key after entering timer data by numeric keys. For subsequent data setting, repeat the operation, starting with step ③.
- ⑥ After setting timer data, turn off the NC parameter for writing parameters. Depress **RET** key to return to the PMC basic menu.

5.5.2 Counter setting and display

Set and display the preset values and integrated values of the counter. If counter screen does not appear, depress **COUNTR** soft key to bring the counter screen.

Counter No. (1 - 20)	COUNTER			
	NO	ADDRESS	PRESET	CURRENT
	01	C00	26520	1120
	02	C04	1200	0
	03	C08	0	0
	.			
	.			
	.			
	.			
	.			
	.			
	15			

Preset value → PRESET
 Integrated value → CURRENT

Fig. 5.5.2 Counter screen

1) Setting and display from CRT/MDI panel

- ① After changing a menu by depressing **PCPRM** soft key of PMC basic menu, depress **COUNTR** soft key to bring the counter screen. (See Fig. 5.5.2).
- ② Display data of necessary counter number by depressing page key **↓**. The operation in ③ and subsequent steps are required for setting counter data.

- ③ Set NC to MDI mode (emergency stop status in case of PMC-I). Set key signal KEY4=1 in case of BMI interface. Set KEY=1 for an interface corresponding to FS3 or FS6.
- ④ Set the cursor to the setting point on the screen by using the cursor key.
- ⑤ The counter is set by depressing key after entering counter data by numeric keys. For setting subsequent data, repeat the operation starting with step ④.
- ⑥ After setting counter data, depress key to return to the PMC basic menu.

5.5.3 Setting and display of keep relay and nonvolatile memory control data

Set the display keep relay and nonvolatile memory control data. If keep relay screen is not displayed, depress soft key to bring the keep relay screen.

KEEP RELAY		
NO	ADDRESS	DATA
01	K00	10100011
02	K01	00011100
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.
15	K14	11000101

Fig. 5.5.3 Keep relay screen

- 1) Setting and display of keep relay
 - ① For data setting in the case of PMC-I, set NC to the MDI mode or emergency stop status and turn on the NC parameter for writing parameters. This operation is not required for display.
 - ② After changing the menu by depressing soft key of PMC basic menu, depress soft key to display the keep relay screen. (See Fig. 5.5.3.)
 - ③ Bring data of necessary keep relay on the screen by depressing page key . The operation in ④ and subsequent steps are required for setting the keep relay and nonvolatile memory control data.
 - ④ Set the cursor to the setting point on the screen by the cursor key operation.
 - ⑤ Set keep relay data by depressing key after inputting numeric keys. Perform operation from ④ for setting subsequent data.
 - ⑥ After setting keep relay data, depress key to return to the PMC basic menu.
- 2) Setting and display of nonvolatile memory control data

Set and display nonvolatile memory control data in the same way as in setting and displaying the keep relay.

Nonvolatile memory control data are displayed at No. 17 address K16 on the keep relay screen and only data of bit 6 and 7 are used.

5.5.4 Setting and display of data table

If no data table screen is displayed, the data table control data screen (see Fig. 5.5.4 (a)) appears by depressing the **DATA** soft key of PMC parameter menu. If correct data are being set as data table control data, data contents (see Fig. 5.5.4 (b), (c)) of data table #1 are displayed first by depressing page key, and the data of data table #2, #3, ... #n are displayed each time page key is depressed hereafter.

DATA TABLE CONTROL DATA						
NO.	ADDRESS	PARAMETER	NO.OF DATA	OFFSET	SPECIAL	TABLE NO.0
000	D0000		3			
001	D0002	00000110	20	0	31520	2150
002	D0010	00000110	10	0	0	20000
003	D0018	10000000	42	0	550	12300
004						
005						
.						
.						
.						
.						
.						
.						
014						

→ No. of tables

→ Table 1 control data

→ Table 2 control data

→ Table 3 control data

→ Data of table internal No. 0

→ Special display data

→ Offset data

→ No. of data

→ Table parameters

Fig. 5.5.4 (a) Data table control data screen

Table internal No. Indicates the number of data table group.

DATA TABLE DATA #001					
NO.	ADDRESS	DATA	NO.	ADDRESS	DATA
0000	D0026	12550	0015		
0001	D0028	120	.		
0002	D0030	1500	.		
.			.		
.			.		
.			.		
.			.		
.			.		
.			.		
.			.		
0014			0029		

Fig. 5.5.4 (b) Data table data screen

- ② Depress **DATA** soft key after changing the menu by depressing **PCPRM** soft key of PMC basic menu.
The data control data screen shown in Fig. 5.5.4 (a) appears first. Depress page key to display the data table screen. See Fig. 5.5.4 (b). Data of data table 1 appears on the data table screen. By depressing page key again, data of table 2 appears. Data tables 3, 4, ... are sequentially selected, each time page key is depressed. Display the data table screen of corresponding table.
- ③ If 30 or more data table data are present, display the next data by depressing page key **↓**.
The operations in ④ and subsequent steps are required for data setting.
- ④ Set the cursor to the setting data point by using the cursor key of the CRT/MDI panel.
- ⑤ Depress **INPUT** key after setting data by numeric keys.
- ⑥ Data are rewritten at the designated cursor point.
- ⑦ Repeat operation, starting with step ④, if data are to be set sequentially.
- ⑧ After setting data table, depress **RET** key to return to the PMC basic menu.

5.5.5 Setting and display of positioning MODULE parameters

Set and display positioning module parameters. If the positioning module screen is not displayed, depress **POS** soft key to display the screen.

PMC system automatically reserves parameter area of 66 bytes/unit from the end of data table.

Positioning module No.
(#1, #2, ... sequentially from a module having a lower input address of PC in the POS module connected to I/O unit.)

Parameter No.	NO.	ADDRESS	DATA NO.	ADDRESS	DATA
	01	D□□□□	□□□□□□□□		
		D□□□□			
		D□□□□			
	02	D□□□□			
		D□□□□			
		D□□□□			
	03	D□□□□			
	04	D□□□□			
	.				
	.				
	.				
	.				

Fig. 5.5.5 Positioning module parameter screen

Note) When setting a parameter to parameter, No. 1, 2, H, M, and L parameters are set sequentially from the top of the CRT screen.
For H, M, and L parameters, refer to the positioning module in Section V.

1) Setting and display from CRT/MDI panel

Positioning module parameters are classified into bit type and numeric type according to parameter numbers and entered from CRT/MDI panel in the format. For details of parameters, refer to Appendix 20.

- ① For setting parameters in the case of PMC-I, set NC to the MDI mode or emergency stop status and turn on an NC parameter for writing parameters. This operation is not required for displaying parameters.
- ② After changing the menu by depressing soft key of PMC basic menu, depress soft key to bring the positioning module parameter screen. (See Fig. 5.5.5.)
- ③ Depress page key to bring necessary positioning module No. screen. The operations in ④ and subsequent steps are required for setting parameters.
- ④ Set the cursor to the setting point on the screen by cursor key operation.
- ⑤ Set parameters by depressing key after entering data of the specified format corresponding to parameter numbers by numeric keys. For subsequently setting data, repeat operation starting with step ④.
- ⑥ After setting parameters, depress key to return to the PMC basic menu.