Chapter 3 Device Monitoring Screen

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3.1	Device Monitoring Screen
	What's Device Monitoring Screen? • • • • • • • • • • • • • • • • • 3 - 3
3.2	Lamp Display
	How to display a lamp \cdot · · · · · · · · · · · · · · · · · · ·
	[Practice] Let's create a lamp. • • • • • • • • • • • • • • • • • • •
	[Practice] Let's create the lamp to display 4 states. • • • 3 - 8
3.3	Message Display
	Message Display · · · · · · · · · · · · · · · · · · ·
	[Practice] Let's display the state of the device with messages \cdot 3 - 1 2

B Device Monitoring Screen



What's Device Monitoring Screen?

In the Device Monitoring Screen, the ON/OFF state of the PLC's internal bits is monitored and lamps or messages are displayed.



Each line's Run/Stop and Working Level are displayed with lamps.(P.3-6 for details)



The message display object displays where the stop line is.

(P3-12 for details)



3.2 Lamp Display



The lamp monitors changes of the PLC's address and the display changes accordingly.



Bit addresses and word addresses are monitored and the display changes.

Example of Lamp Display



Ex. of labels Normal / Error Running / Stopped etc.

Example of N State Lamp Display





Click the [Lamp] icon from the Tool Bar.





Drag the cursor to the position on the base screen as shown in the figure on the right and place the lamp.



(2) Let's select a picture.

Double-click the placed lamp.

Click [Select Shape].

For each of State 0 and State 1, click [Open] and select the desired image from the Shape Browser.

Clicking [Auto] selects the picture for the other states automatically.

Click [OK].



(3) Let's configure Lamp Settings.

Set [M115] for Bit Address.

Click [OK].





(4) Let's duplicate it.

Select the placed lamp and right-click it. Select Duplicate from the short-cut menu.





Make settings as shown below and click [OK].

No. of Copies	X Direction Y Direction	
Interval	X Direction Y Direction	
Add Address	Addition Wid	th 1





Multiple lamps are created at one time as shown in the figure on the right.





Let's create a lamp to display 4 states.

Let's create a lamp that monitors 2 bit addresses and displays 4 states.

[Setup Flow]

- 1 . Open the base screen [3].
- 2 . Place/Configure the Lamp.

Open the base screen [3].



(1) Let's select/place the Lamp.

Click the [Lamp] icon from the Tool Bar.





Drag the cursor on the base screen to place the lamp.





(3) Select Shape

Click [Select Shape] and select the desired image for State 0 to 3 each after selecting [Open].



After selecting 4 pictures for them, click [OK].

I



Bit Address Word Address		>>Basic
No. of States	Word Address [PLC1]D00000 [Contemporation of the second s	
State Switch Condition	Copy from Copy to Switch Switch	
Change Condition by Data Change Condition by Data		
Change Condition by Bit		

3.3 Message Display

Message Display

The state of the specified bit or word address is monitored and each message is displayed depending on the state.

Image of Message Display

The created messages are displayed and switched according to data change. For Display Text, there are two choices: [Direct Input] and [Text Display].

Direct Input: The text entered in the dialog box of the part is displayed.

There are 2 operation modes, [Bit] and [Word].

[Bit]: 2 messages are displayed and switched by the ON/OFF state of one bit.

[Word]:In one word, the bottom 4 bits are monitored and up to 16 messages are displayed and switched.



Text Display: The specified text is called and displayed. The text number or the display start line can be specified.



* In this chapter, we will practice Direct Input.



(3) Display Settings, Color Settings

Make the following settings; Text Type [Direct Text] No. of Messages [8]

Changing from State 0 to State 7, register messages as you like for each.

Set the color you like.



Click [OK].

💰 Message Display	×	
PatID	Basic Settings Display Settings Color Settings	
MD_0000 🚍	Text Type	
Stop Line	C Direct Test C Test Table	
ADC	No. of Messages Select State 16 State 0 Font Settings Font Type Standard Font × Size Display Language ASCII Text Standard ▼	9
	Register Message	
	Align E E Copy Comment Copy to All Delete	
Help [H]	OK (Q) Cancel	

M0_0000 <u>-</u>		_				6
Stop Line	Select State	State 0	-			Ľ,
ARC	Text Color	1	• 864	k None	•	
	Plate Color	1	💌 Bini	k None		L
Select Shape	Border Color	7		k None	*	J



