

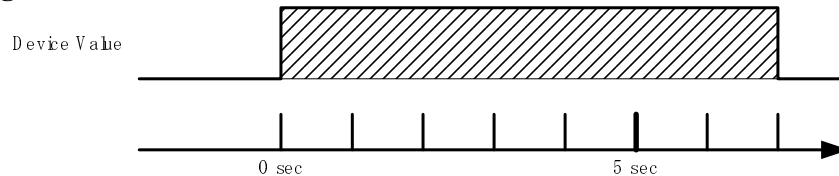
Preventive Maintenance Function



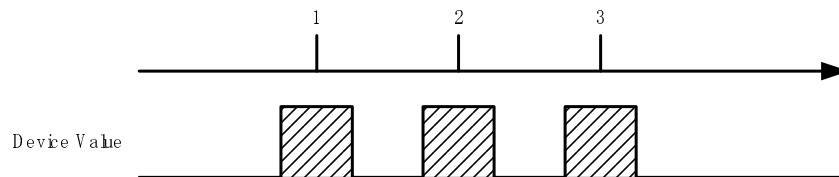
1 What is the Preventive Maintenance Function?

The Preventive Maintenance function monitors the bit device state, and it monitors the length of ON state and counts the number of times the ON state is in use. You can also display a notification on the MICRO/I when the time or the count reach a specific set value.. This function can help you avoid equipment failure by providing advance notice of a problem from the MICRO/I.

The length of ON state



The number of ON state



2 When you need this function?

If you have the following issues, the function provides a solution.

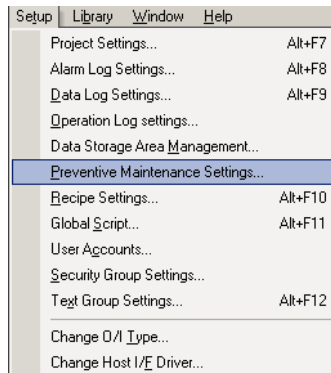
1. You want to know how long the MICRO/I has been working..
2. You want to get a notification when specific resources in you machine will run out. . For example, paper or ink in a printing machine.

3 Configuration

The following steps explain you how to configure the preventive maintenance function.

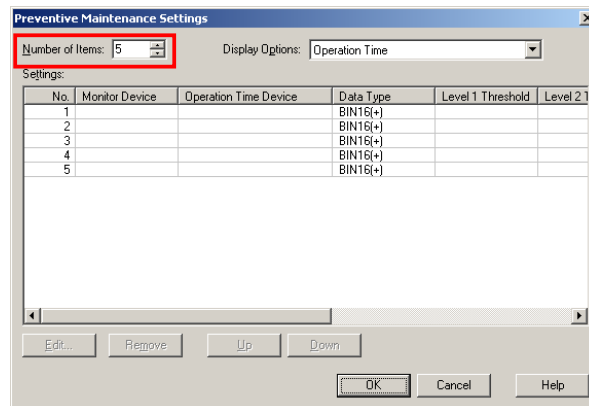
Step. 1 Configuration Screen

Go to the “Setup” menu and select “Preventive Maintenance Settings”.



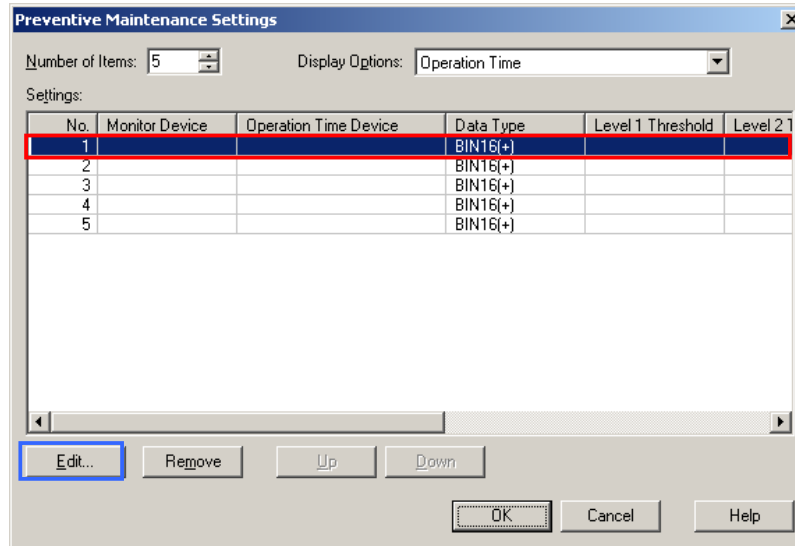
Step. 2 Set the number of monitoring device

The “Preventive Maintenance Settings” dialog box allows you to configure this function. Once you decide how many devices you want to monitor, this number is then entered in the “**Number of Items**” box.

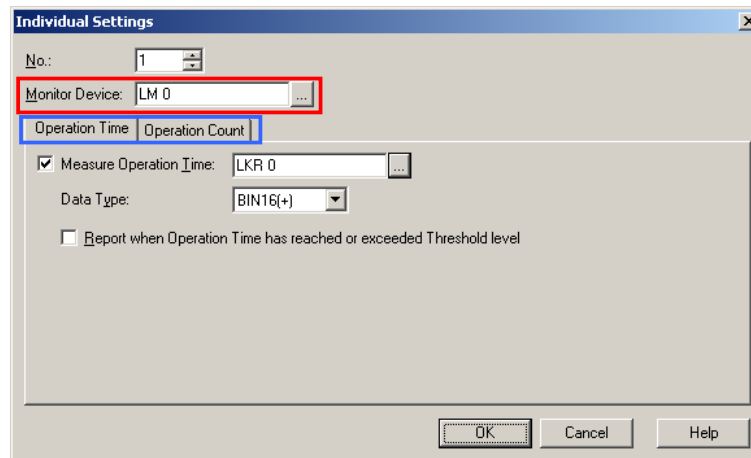


Step. 3 Configure the individual monitoring setting.

You need to enter all the individual monitoring settings. In order to configure the setting, click on a line and click “Edit” button.

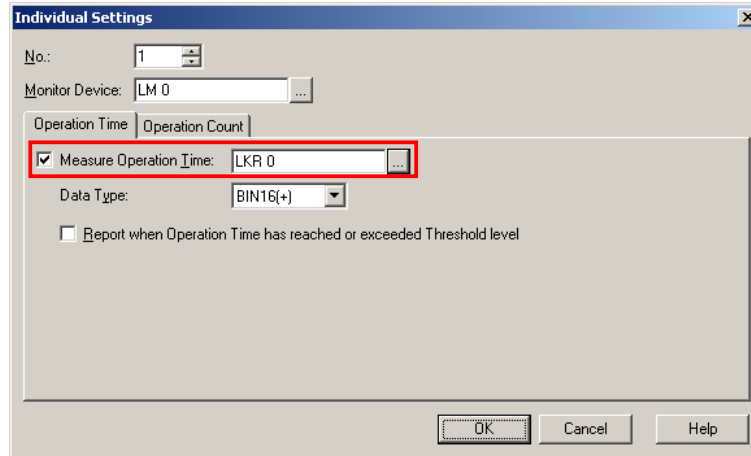


You need to set the device addresses in the “Monitor Device” box and choose the monitoring type. If you want to monitor the length of the ON state, you need to check “Operation Time”, or if you want to count the number of times the device enters the ON state, check “Operation Count”. You can use either one or both of them.

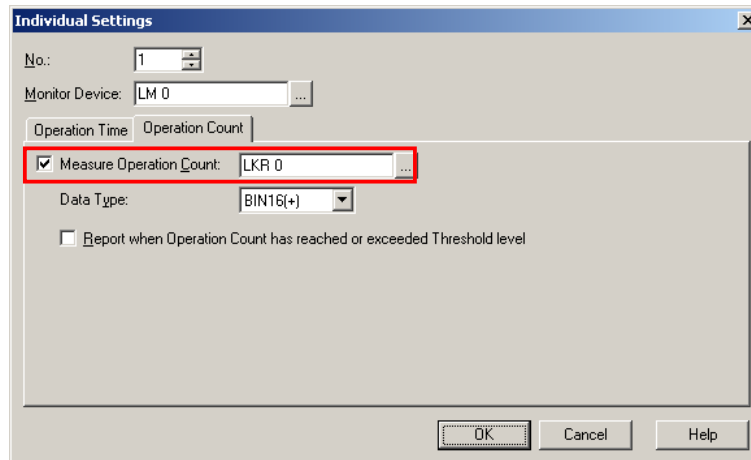


After choosing the monitoring, put the device addresses in the “**Measure Operation Time**” or the “**Measure Operation Count**” box. The MICRO/I stores a number of time or count into the device address.

Note: You can only set a HG Keep Register as the device address.



The screenshot shows the 'Individual Settings' dialog box. At the top, there is a 'No.' field with the value '1' and a 'Monitor Device' field with the value 'LM 0'. Below these are two tabs: 'Operation Time' and 'Operation Count'. The 'Operation Time' tab is active. A red box highlights the 'Measure Operation Time' checkbox, which is checked, and the adjacent text field containing 'LKR 0'. Below this, there is a 'Data Type' dropdown menu set to 'BIN16(+)' and an unchecked checkbox labeled 'Report when Operation Time has reached or exceeded Threshold level'. At the bottom right, there are 'OK', 'Cancel', and 'Help' buttons.



The screenshot shows the 'Individual Settings' dialog box. At the top, there is a 'No.' field with the value '1' and a 'Monitor Device' field with the value 'LM 0'. Below these are two tabs: 'Operation Time' and 'Operation Count'. The 'Operation Count' tab is active. A red box highlights the 'Measure Operation Count' checkbox, which is checked, and the adjacent text field containing 'LKR 0'. Below this, there is a 'Data Type' dropdown menu set to 'BIN16(+)' and an unchecked checkbox labeled 'Report when Operation Count has reached or exceeded Threshold level'. At the bottom right, there are 'OK', 'Cancel', and 'Help' buttons.

Step. 4 Optional Function – Reporting the Device Address

If you want to perform an operation when the monitoring value reaches a preset value, follow the steps below.

Enable the Reporting Function

If you want to enable this function, check the “Report when Operation Time has reached or exceeded Threshold level” box and select “Value” or “Device” as the threshold value, and set a bit device as the “Report Device” address.

You can use up to three levels for reporting purposes.

The screenshot shows the 'Individual Settings' dialog box with the following configuration:

- No.: 1
- Monitor Device: LM 0
- Operation Time | Operation Count
- Measure Operation Time: LKR 0
- Data Type: BIN16(+)
- Report when Operation Time has reached or exceeded Threshold level
- Value Device
- Level 1 Threshold: 1 Report Device: [empty]
- Level 2 Threshold: [empty] Report Device: [empty]
- Level 3 Threshold: [empty] Report Device: [empty]

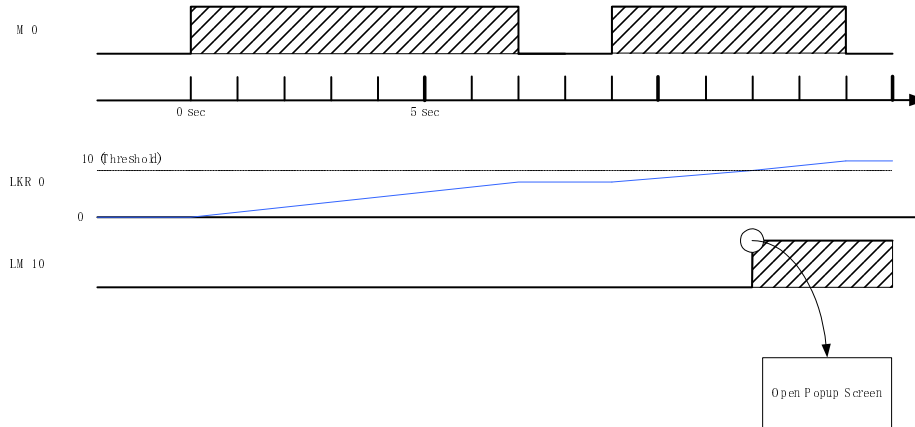
Buttons: OK, Cancel, Help

Assign a function to the Report Device address

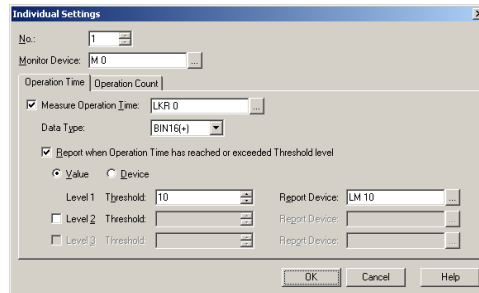
You can open a popup screen, show a message, or turn on a buzzer, using the Report Device. The following is an example.

In the following setting, the monitoring device address is M 0, and the length of time will be stored into LKR 0. If the value in LKR 0 reaches to 10, the Reporting Device address, which is LM 10, will turn on.

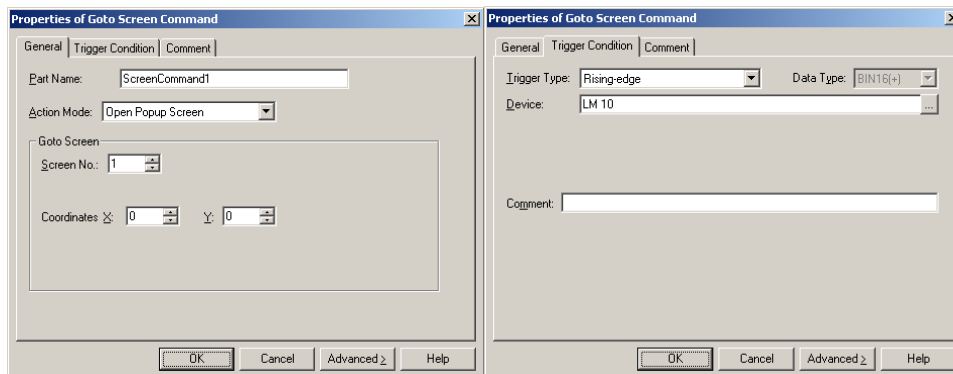
If the LM 10 is ON, it will trigger opening the popup screen No.1.



Timing Chart



Configuration for Preventive Maintenance Function



Configuration for Go to Screen Command