35. EasyWatch

This chapter explains how to use EasyWatch.

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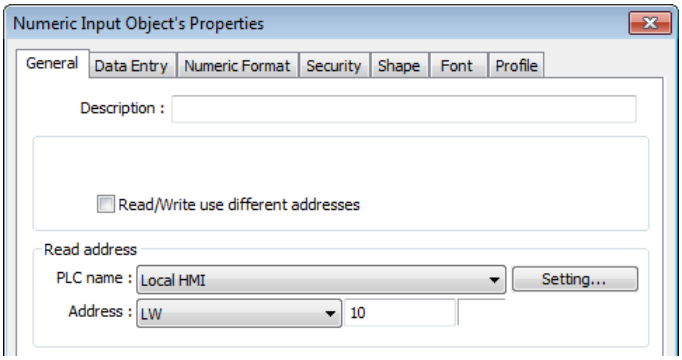
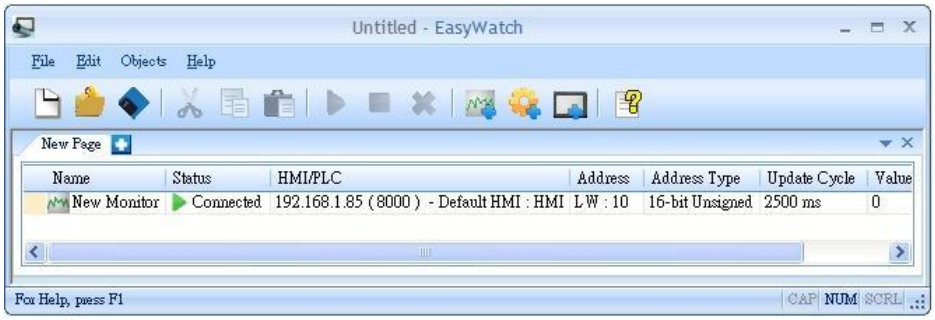
35.1. Overview

EasyWatch allows users to monitor values in HMI / PLC addresses via Ethernet from a PC, and it can be used for macro debugging and remote monitoring.
As shown in the example below, In EasyBuilder Pro, after creating a Numeric Input Object, you can set its address to LW-10, and set the same address in EasyWatch. The value of LW-10 will be shown in EasyWatch when connected.





Note

- Monitoring using EasyWatch will not be possible when the system register [LB-9044 (disable remote control)] or [System Parameter Settings] » [System Setting] » [Prohibit remote HMI connecting to this machine] is enabled.
- To connect EasyWatch from a cMT / cMT X HMI, go to [System Parameter Settings] » [Model] tab, select [Support iP/iE/XE/eMT/mTV communication protocol and EasyWatch] option, and then use the port number specified here.

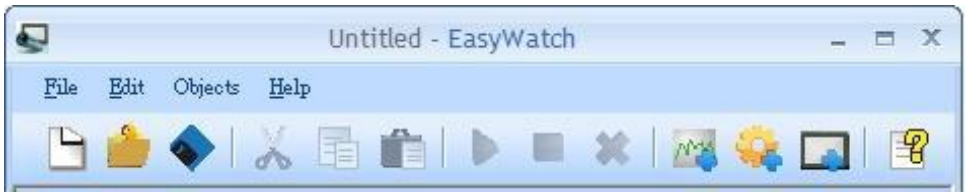
35.2. Configuration

35.2.1. Basic Functions

Item	Description
File	**New:** Opens a new EasyWatch file.

	Open: Opens an existing EasyWatch file. **Save:** Saves an EasyWatch file. **Save As:** Saves an EasyWatch file to .ewt format. **Exit:** Exits EasyWatch.
Edit	**Cut:** Relocates the selected items to the clipboard. **Copy:** Copies the selected items to the clipboard. **Paste:** Pastes the items in the clipboard at the selected location.
Objects	**Add Object**: Adds new Monitor or Macro objects. **Delete Objects**: Selects the objects to be deleted, a dialog box appears, click [Yes] to delete. **Modify Object**: Changes the settings of the selected object. **HMI Manager**: Adds, modifies, or removes HMI settings. **Run**: Executes the selected object. **Stop**: Stops executing the selected object.
Help	**Help Topics:** Reference of how to operate EasyWatch. **About EasyWatch:** EasyWatch version information.

35.2.2. Quick Selection Tools



Item	Description
New	Opens a new EasyWatch file.
Open	Opens an existing EasyWatch file.
Save	Saves an EasyWatch file.
Cut	Relocates the selected items to the clipboard.
Copy	Copies the selected items to the clipboard.
Paste	Pastes the items in the clipboard at the selected location.

Run	Executes the selected object.
Stop	Stops executing the selected object.
Delete	Deletes the selected object.
Add Monitor	Adds a new address monitor.
Add Marco	Adds a new macro.
HMI	Opens HMI Manager to add, modify, or remove HMI settings.
Help Topics	Reference of how to operate the EasyWatch.

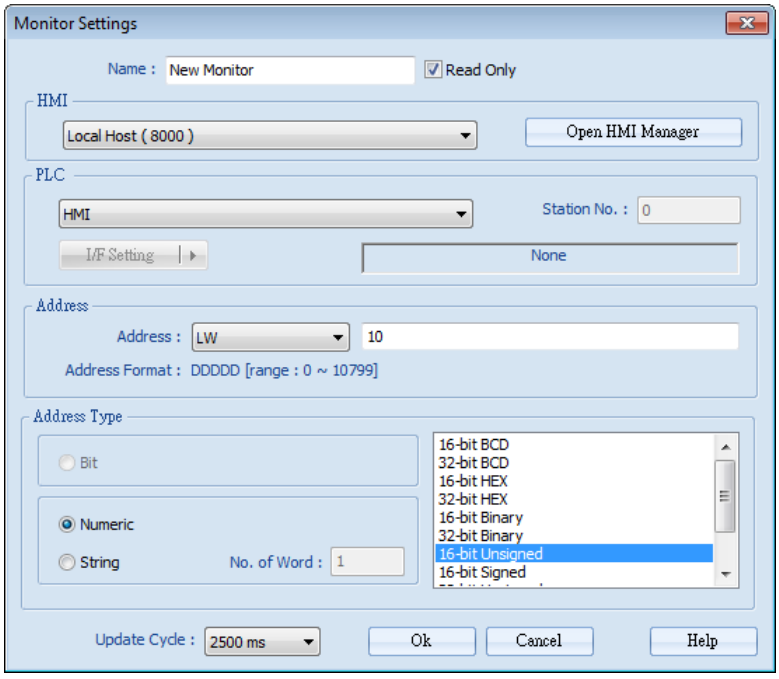
35.3. Monitor Settings

35.3.1. Adding a Monitor

There are two ways to create a Monitor Object.

- Select from the toolbar: [Objects] » [Add Object] » [Add Monitor].
- Select from the quick selection toolbar: [Add new address monitor].

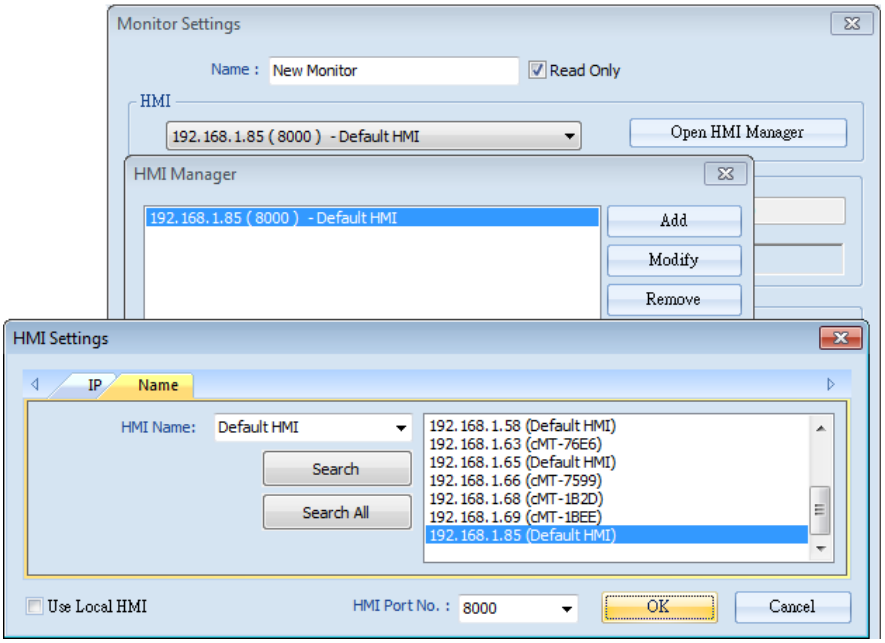
35.3.2. Monitor Settings



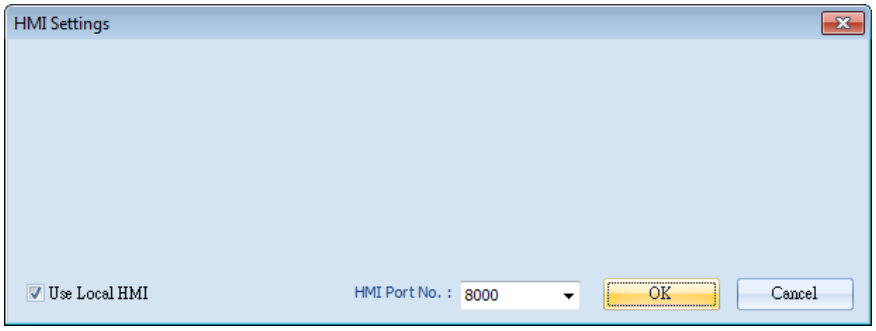
Setting	Description
Name	Enters an object name which is an unique name. **Read Only:** If an object is set to read only, its address value can't be edited.
HMI	Select a HMI to monitor.
PLC	Selects the desired PLC to monitor and sets its type, station number, and connection method.
Address	Selects the desired object address to monitor and sets its address type.
Address Type	When the address type is set, the available formats of the address can be selected. When executing, the address will bedisplayed according to the selected format.
Update Cycle	Sets the update interval of the monitoring object. If many objects are executed simultaneously, the errors or delays may appear.

35.3.3. Steps to Add a New Monitor

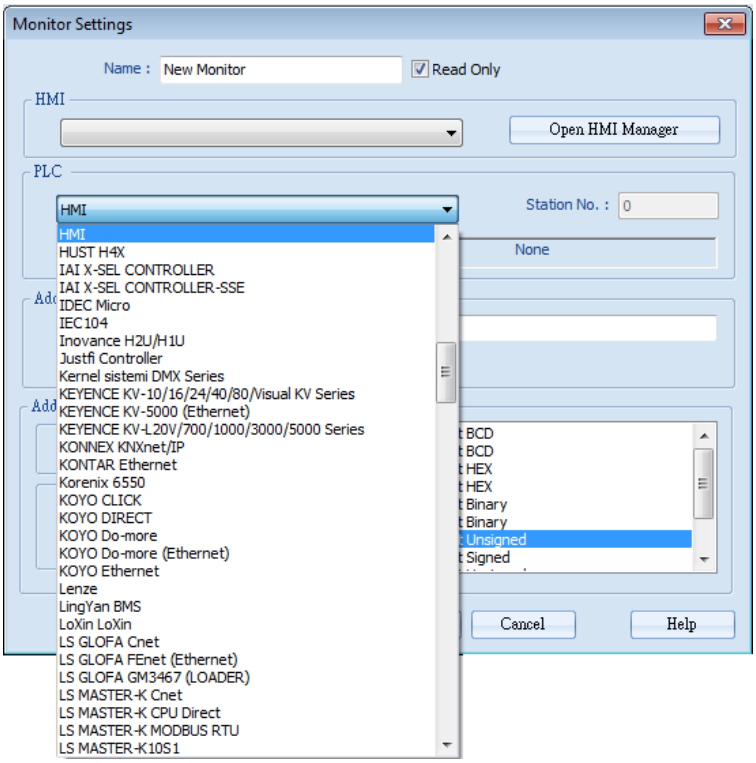
1. Select a target HMI. If the target HMI does not exist, click [Open HMI Manager] and click [Add] to search the HMI for adding.



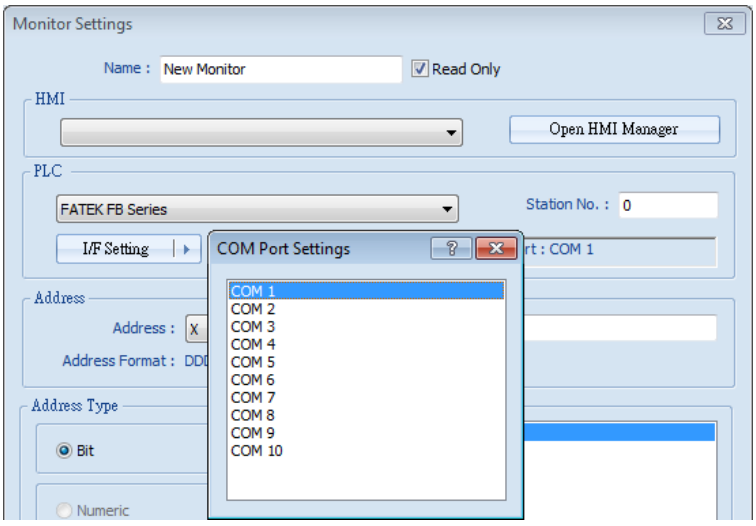
Or, select [Use Local HMI] checkbox to use the project on PC as a monitoring device.



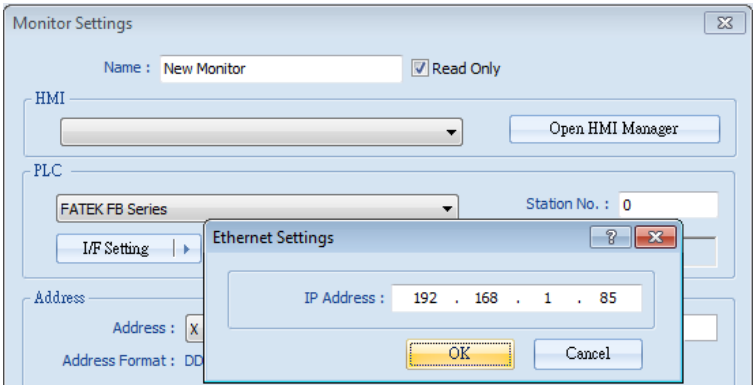
2. Select a target HMI or PLC. If one HMI is selected, you can directly control the local HMI.



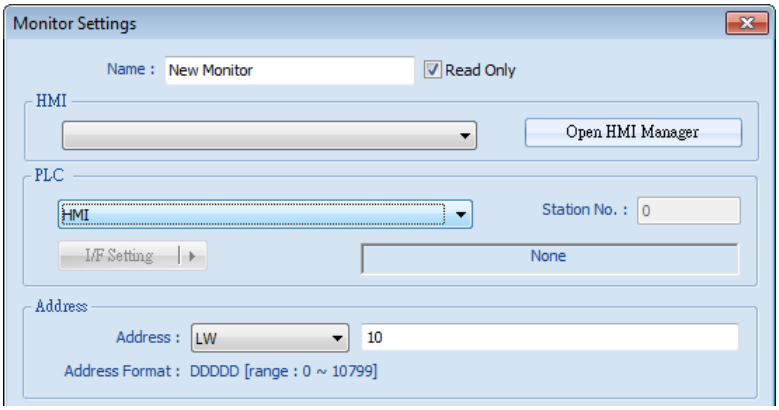
If one PLC is selected, click [I/F Setting] and select [Com Port] to choose a COM port.



Or, click [I/F Setting] and select [Ethernet] to set the IP address.

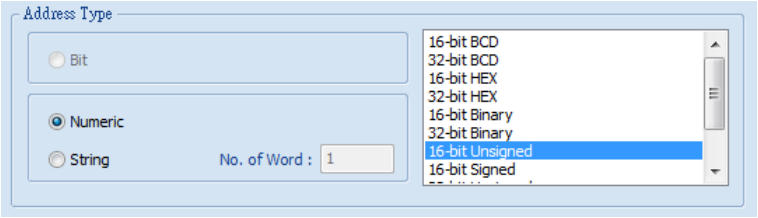


3. Set the object address and its address type for being monitored.

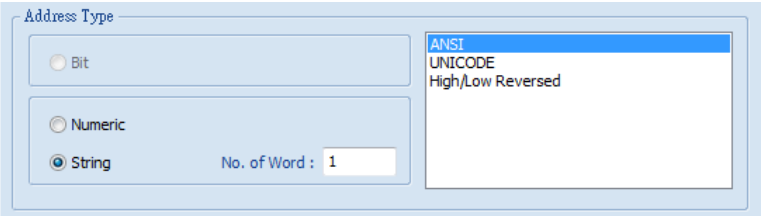


4. When a Word address is selected, set the address type to [Numeric] or [String].

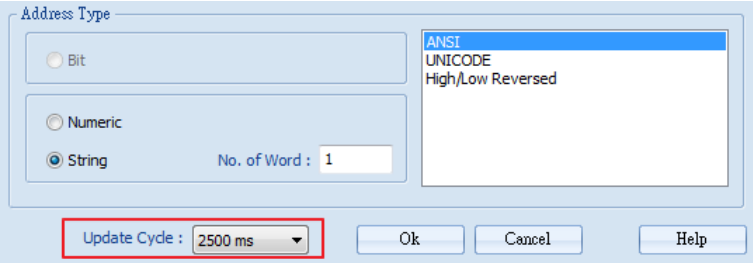
[Numeric]: Select the data format of the monitor address.



[String]: Select the data format from [ANSI], [UNICODE], and [High/Reversed]. Set [No. of Word] for reading the number of WORD.



5. Set the update interval of the monitor object. The range can be set from 500ms to 5000ms.


Address Type
Bit
Numeric
String
No. of Word :
1
ANSI
UNICODE
High/Low Reversed
Update Cycle :
2500 ms
Ok
Cancel
Help

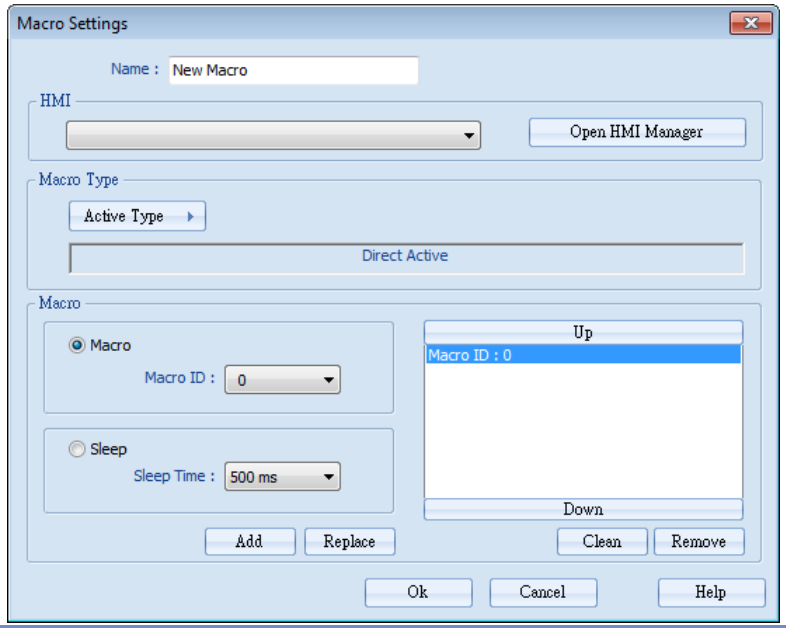
35.4. Macro Settings

35.4.1. Adding a Macro

There are two ways to create a Macro object.

- Select from the toolbar: [Objects] » [Add Object] » [Add Macro].
- Select from the quick selection toolbar: [Add new macro].

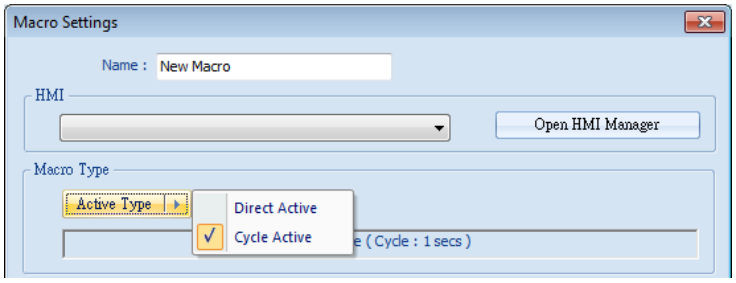
35.4.2. Macro Settings



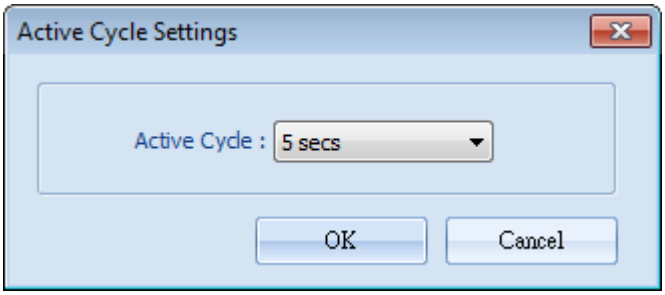
Setting	Description
Name	Enters an object name which is an unique name.
HMI	Selects a HMI to monitor.
Macro Type	The ways to execute the Macro included Direct Active and Cycle Active.
Macro	Each Macro Object can execute multiple macros. The time interval between the executions of two macros can be changed.

35.4.3. Steps to Add a New Macro

1. Select a target HMI. If the target HMI does not exist, add a new device, see “35.3.3 Steps to Add a New Monitor”.
2. Set Active Type under Macro Type to [Direct Active] or [Cycle Active].
   [Direct Active]: Directly executes Macro once.
   [Cycle Active]: Set the interval of executing Macro.

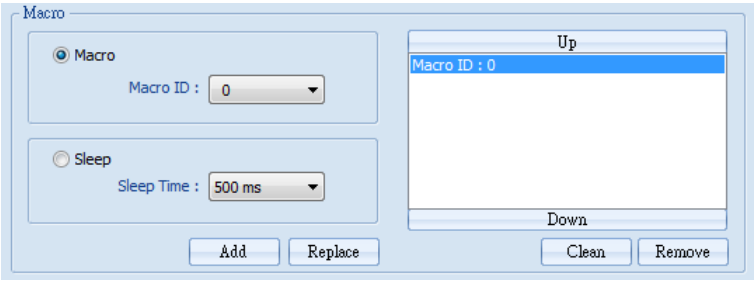


For example, if [Cycle Active] is set to 5 seconds, when executing a macro, the next time to execute the macro object will be 5 seconds later.

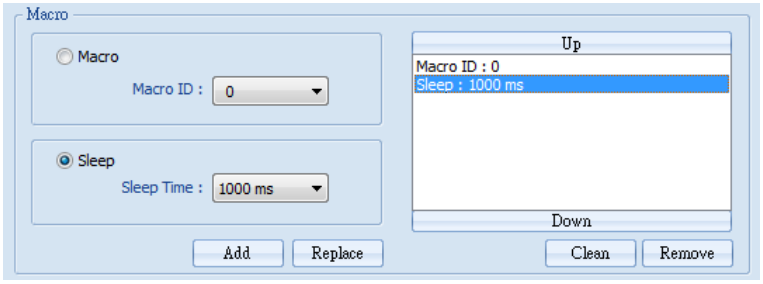


3. Set Macro to [Macro] or [Sleep].

[Macro]: Select the Macro ID for execution, and click [Add] to add the Macro to the list.



[Sleep]: Set the time interval between the executions of two Macros. Click [Add] or [Replace] to add or replace the Macros from the list.



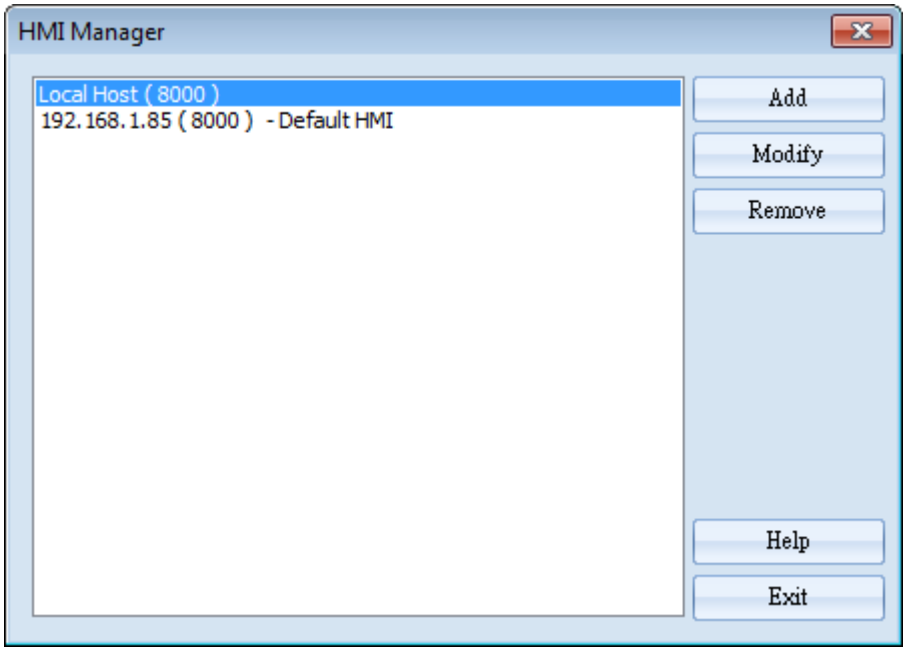
35.5. HMI Manager

35.5.1. Opening HMI Setting

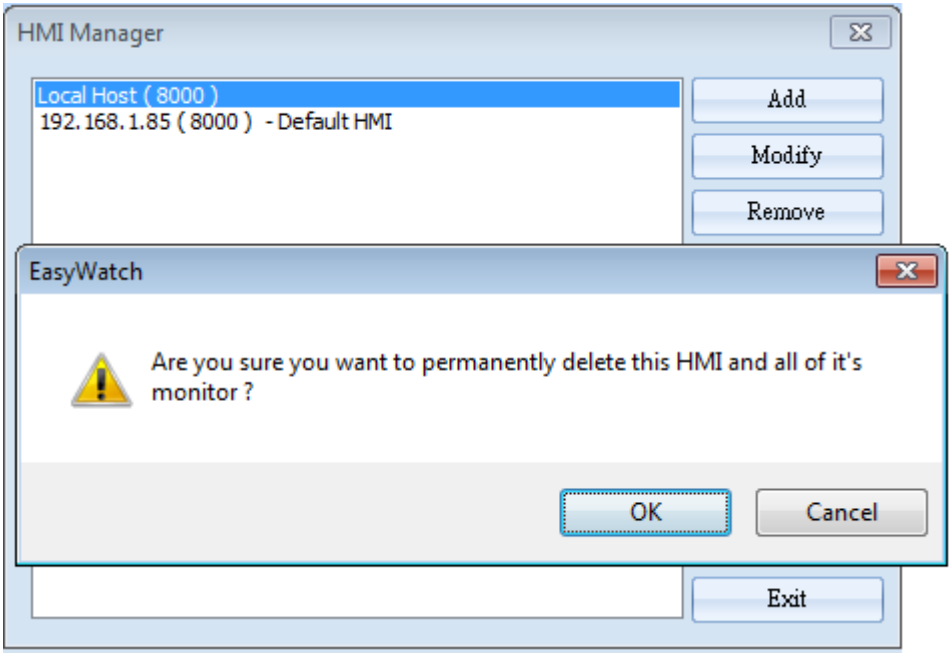
There are two ways to open the HMI Setting.

- Select from the toolbar: [Objects] » [HMI Manager].
- Select from the quick selection toolbar: [Open HMI manager].

35.5.2. HMI Manager



Setting	Description
Add	Select a target HMI. If the target HMI does not exist, add a new device, see “35.3.3 Steps to add a new monitor”.
Modify	Modify the settings of the HMI.
Remove	Remove the HMI.



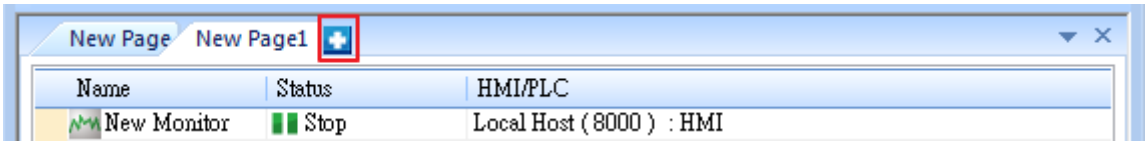
35.6. Object List

35.6.1. Object List Columns

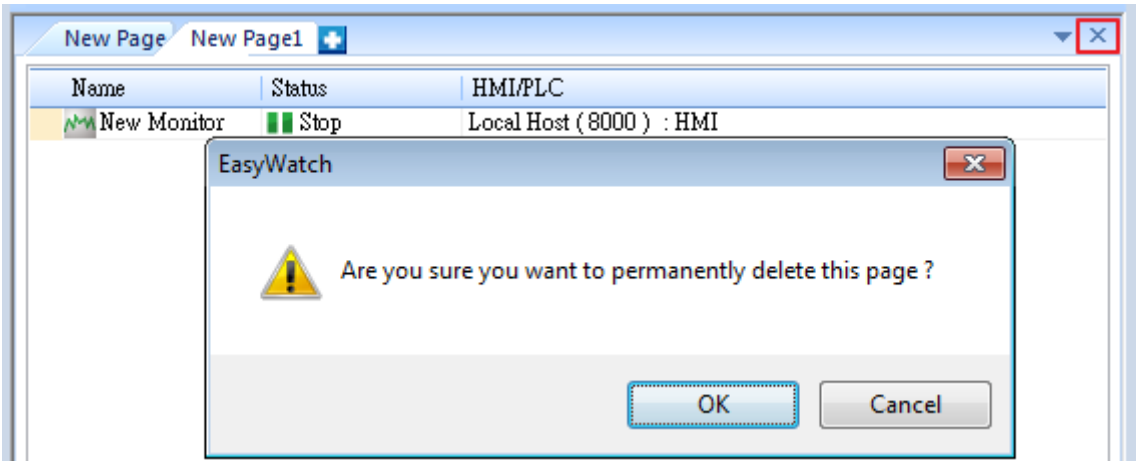
Setting	Description
Name	Displays the object name. The small icons of the names are for users to identify the objects.
Status	Displays the status of the objects: [Connecting], [Connected], and [Stop]. If HMI is not connected or Port No. is incorrect, the error message “HMI Not Found” will appear. For Monitor Objects, if the address is incorrect, “Address Error” message will appear.
HMI / PLC	Displays the information of HMI / PLC that is currently operated by the objects.
Address **Address Type**	For Monitor Objects, the relevant address setting is displayed.
Update Cycle	Set the update interval of the monitor object.
Value	For Monitor Object, if the status shows [Connected], the current HMI address value will be displayed. Modifying the value is also available when the Read-Only checkbox is unselected. For Macro Object, if set to [Direct Active], there will be an [Active] button in this column for clicking to directly execute a macro.

35.6.2. Editing Object List

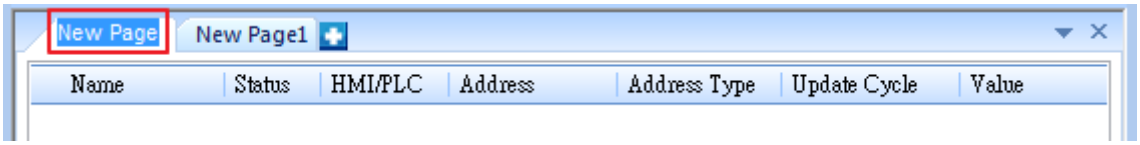
- Adding a new page: Click the icon to add a new page.



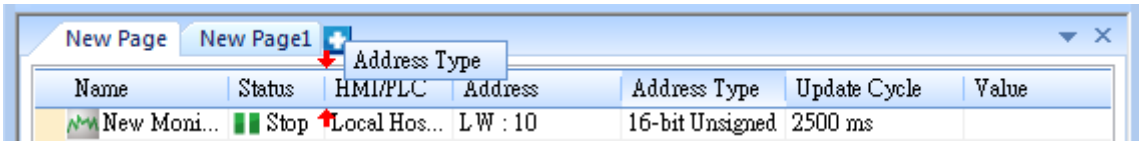
- Deleting a page: Click the icon and confirm the deletion.



- Renaming the page: Double-click on the page name and enter a new name.



- Positioning the column headers: Drag and drop the column headers to the desired location.



Click the icon to watch the demonstration film. Please confirm your internet connection before playing the film.