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TOOLS

COMPANY SHARED

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References

- Online User Guide Function modules / Module Editor / Reference information

WORLD CLASS – Through people, technology and dedication

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2



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Content

- Find tag
- Show connection
- Module modes
- Module list
- Forcing a value
- Floating image window
- Reminder note
- IO image

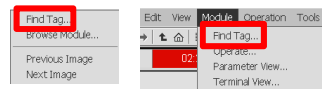


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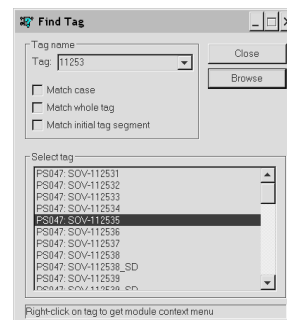
Find Tag identification

Find Tag identification:

- Right click in an empty space of a process image
- In the Module menu in the top menu bar



- Type a tag name or a part of a tag name in "Tag"
- Use the Browse button or enter
- All module tags containing the text string will be listed
- List sorted by PS followed by tag name within each PS





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Find Tag dialog box

Match case:

- Upper/lower case sensitive

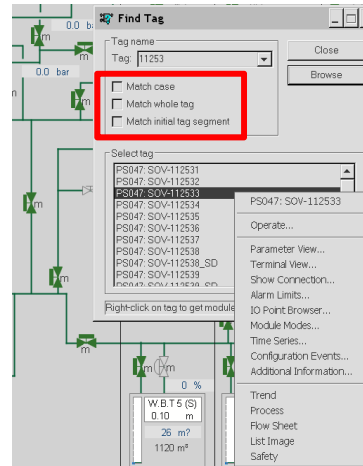
Match whole tag:

- Whole tag name to be written

Match initial tag segment:

- Start of the tag name to be written

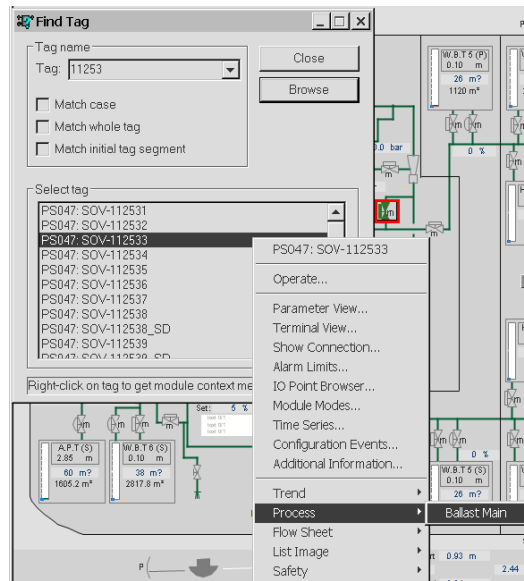
Module context menu available
on right click on a tag name



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Tag identification

- Selected Tag is indicated by a red frame

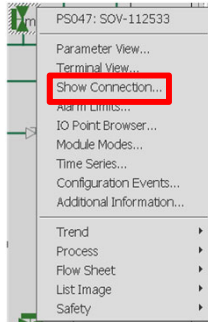




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Show Connections identification

Tool for following signals between function modules and to IO-points



- Opened from the module context menu



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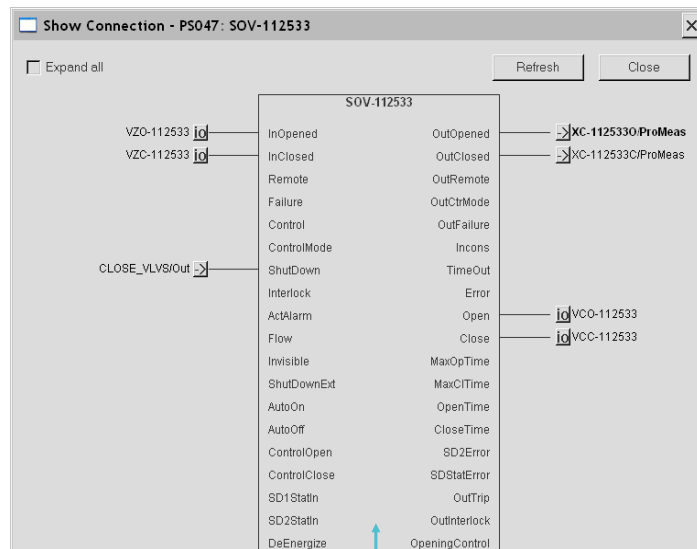
Show Connections view



“IO-button” opens the “IO-Terminal Block view”



The “arrow-buttons” shows connections between modules by `<TagName> / <TerminalName>`



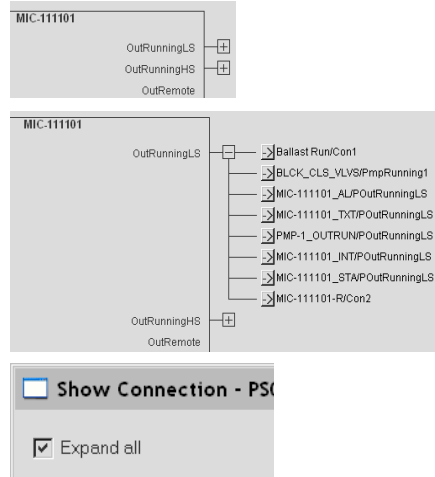
Module context menu available on a right click



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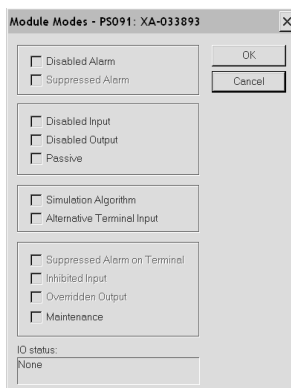
Show Connections, terminal expansion

- Select to expand a terminal with several connections
 - All connections are shown
- Select to revert the expanding
- To expand all connections for a module: tick off the box 'Expand all' in the upper left corner



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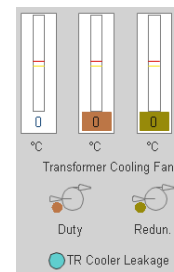
Module Modes: Exceptional modes identification



Default colour convention for module mode:

- Disabled alarm (By Operator)
- Suppressed Alarm (By Logic)
- Disabled Input terminal
- Disabled Output terminal
- Passive Module
- Inhibit
- Maintenance

Exceptional modes indications.





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Exceptional modes explanation

Disable alarm (DA): The reporting of alarms is disabled. Disabled alarm mode is set by the user and acts on all alarms independent on module type. Note: Only the alarm is “turned off”, the actual terminal value is not affected by this mode.

Suppressed alarm (SU): The mode is set by an input terminal, by the system. Whether all alarms or only some are suppressed depend on module type. Note: Only the alarm is “turned off”, the actual terminal value is not affected by this mode.

Disable Input/Output (DI/DO): Input/output signals on module’s terminals are frozen. Terminal values can now be entered manually through the Terminal view.

Passive (PA): The module stopped from operating.

Simulation Algorithm (SA): The module runs and performs simulated operations for system testing. The module takes part in simulation instead of process control.

Alternative Terminal input (AI): The module input terminal values are taken from module output terminals instead of from the IO terminals (provided that both types connections exist).



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Exceptional modes explanation continue

Suppressed alarm on terminal (ST): Is set by the module upon predefined events. It acts on specific alarms. The effect of this mode is that the reporting of these specific alarms are suppressed. However, the alarms will still appear in dedicated presentations of suppressed alarms

Inhibited Input (IN): The module output terminal values are inhibited, i.e. they are not set to the output terminals

Overridden Output (OV): The module output terminal values are suppressed, i.e. they are not set to the output terminals. This mode is used in the ESD.

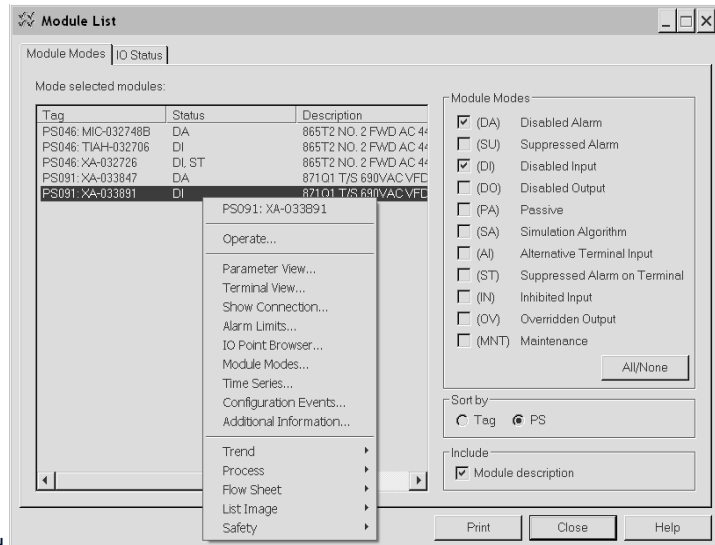
Maintenance Mode (MNT): For loop testing purposes during commissioning. Alarms will only appear in dedicated views.



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Module List: Exceptional mode

- Tools → Module List
- Multiple “Module Mode” selections possible
- The list is static, updated on each “Module Mode” (re-) selection
- The list can be sorted by Tag or PS (default)
- Module description is by default selected



Module context menu available by right click



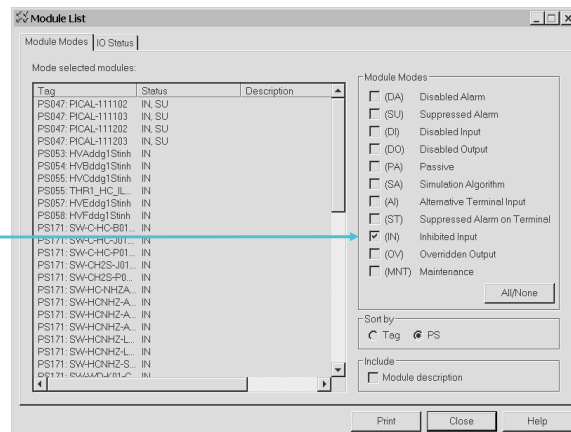
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Module List: Inhibit/override

Module List opened by icons:



Indicator for modules with inhibited input mode

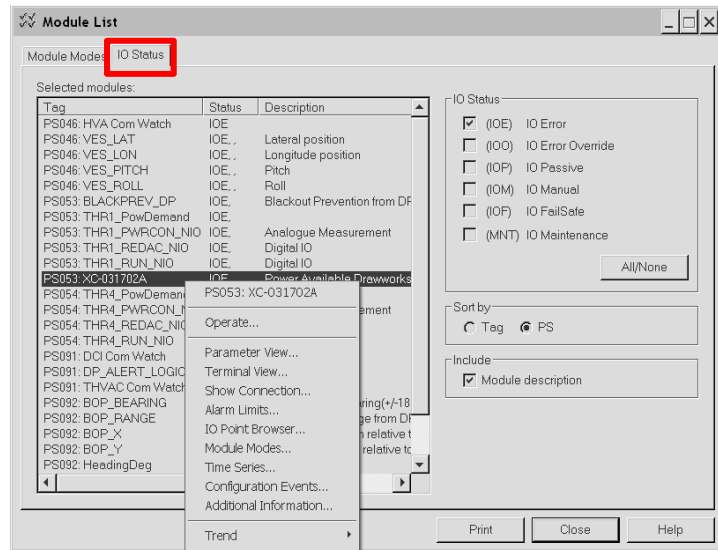




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Module List: IO Status

- Tools → Module List
- Multiple “IO Status” selections possible
- The list is static, updated on each “IO Status” (re-) selection
- The list can be sorted by Tag or PS (default)
- Module description is by default selected

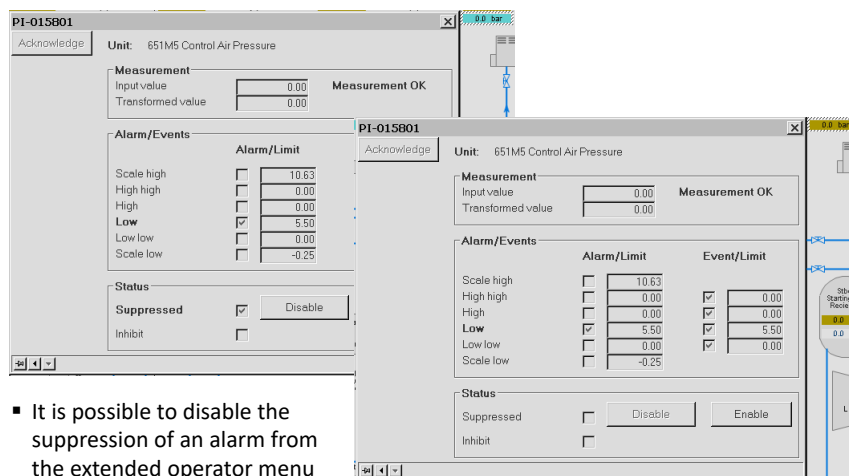


Module context menu available by right click



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Suppressed alarm



- It is possible to disable the suppression of an alarm from the extended operator menu

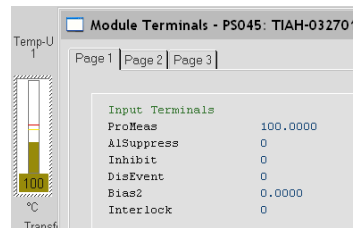
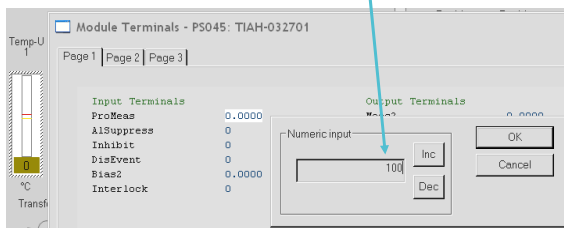
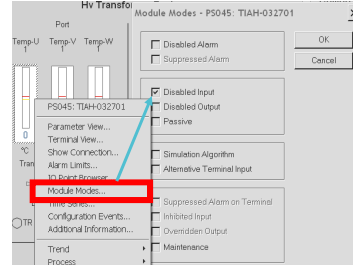


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How to force values

Mainly used for testing

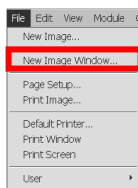
- Module context menu - Module Modes
- Disable Input – OK
- Open Terminal view
- Click on the selected terminal
- Manually enter a value to the terminal



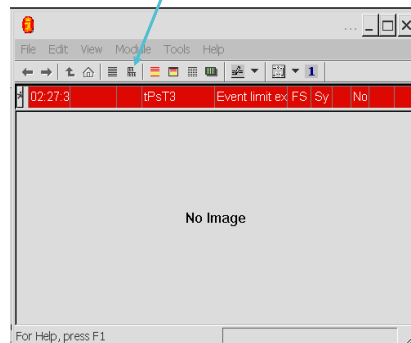
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Floating Image Window

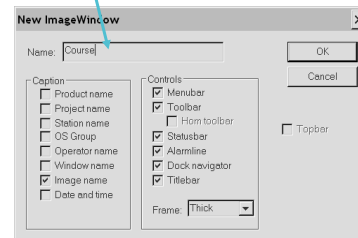
File → New Image Window



Navigator is used for the selection of images



Type a name



- The Image Window can be moved, resized and minimized
- A button is added in the tool bar





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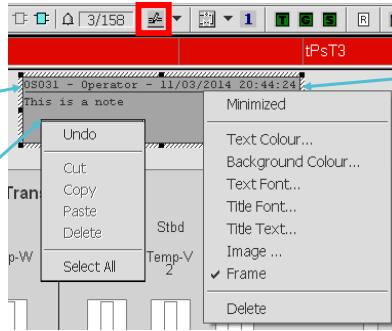
Reminder Note

Text boxes in Process Images for important information shown in the same image on all OS's

The heading contains information about the maker: OS no, User login and date

Right click in the body to get the context menu for text changes

Reminder note button



Right click in heading to get the context menu for changing of layout, and to delete note

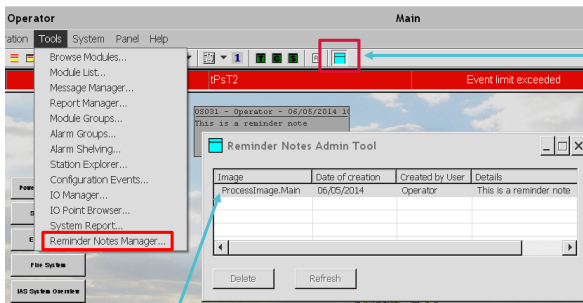


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Reminder Note – Admin tool

List of all reminder notes in the system

- Tools → Reminder Notes Manager



Reminder Notes Manager button

The content (Details) of all reminder notes are visible

- Click a reminder note in Image column will jump to the image where it is located
- Selected reminder notes can be deleted from this window

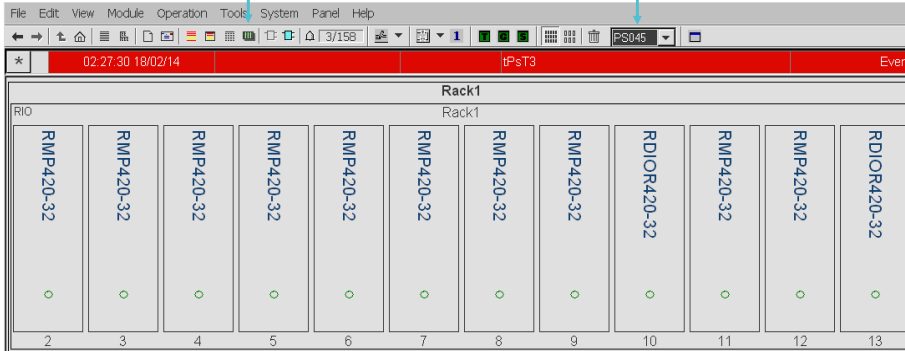


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IO shelf

Process Bus IO image opens the IO image

PS selection

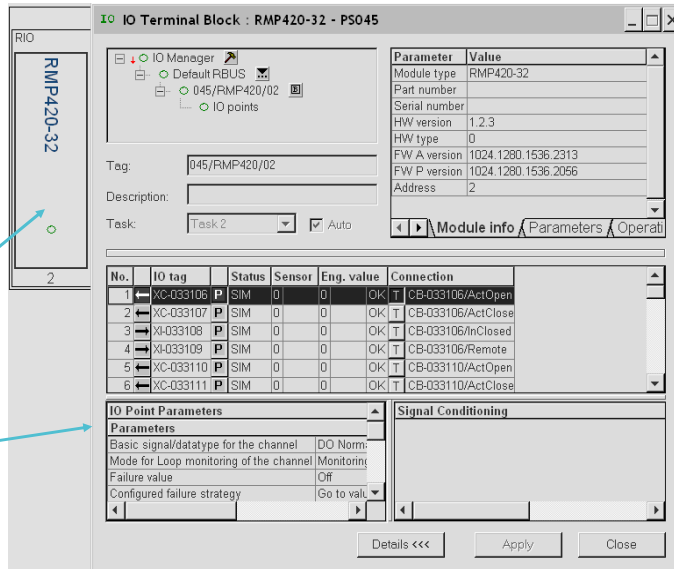


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IO Terminal Block view

Click on an IO card and the IO Terminal Block opens

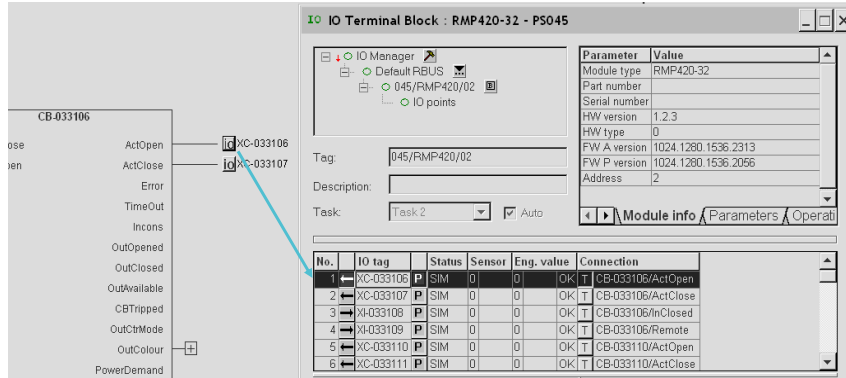
IO Terminal Block





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IO Terminal Block from Show Connection



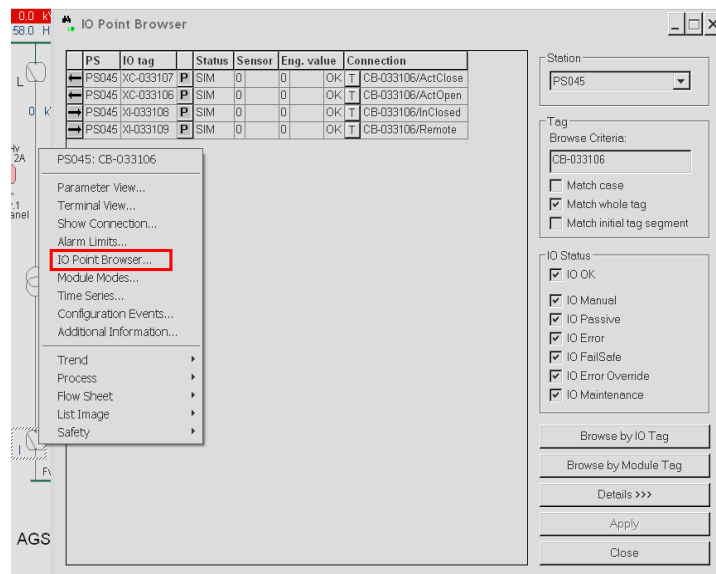
- Selecting the IO button connected to a terminal in the 'show connection' view will open the IO Terminal Block



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IO Point Browser from module

- Module context menu
- Select IO Point Browser
- Shows all the IO connections for this module

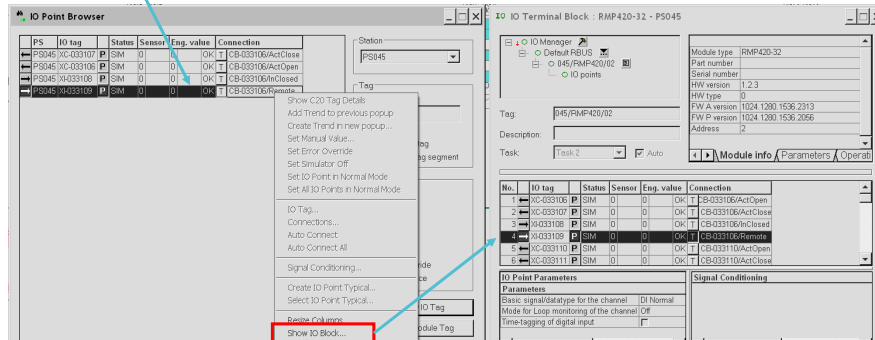




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IO Point Browser to IO Block view

Right-click on a line in the IO Point Browser



Select Show IO Block opens the actual IO Terminal Block view



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Exercises:

- Basic Use
- Show Connections
- Floating Image Window
- Reminder Note
- Module Modes
- IO



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Learning Objectives

- Use the Find Tag function
- Identify and explain the Show Connection view
- Use of the Show Connection functionality
- Identify tags in exceptional modes
- Identify and explain the Module Modes dialog box
- Be able to force a value by disable terminals
- Identify and explain the Module List dialog box
- Carry out selections in Module List
- Identify and explain the Floating Image tool
- Make, adjust and reuse a Floating Image
- Identify and explain the Reminder note tool
- Make and adjust a Reminder note
- Identify and delete Reminder notes from the Admin tool
- Identify and explain the IO images

