

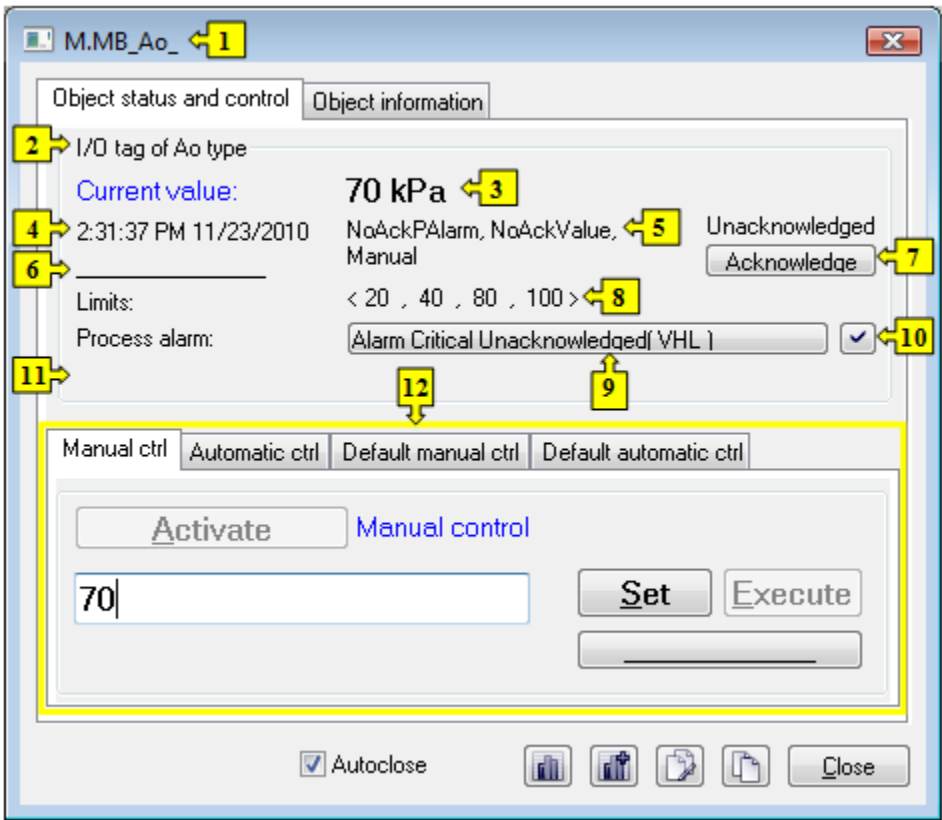
# Control the Analog and Integer Output I/O Tags (AO, CO) (HI /Monitoring and Controlling of D2000 System Objects)

## Controlling analog and integer outputs (AO, CO)






Clicking a graphic object with an I/O Tag of AO (Analog output) or CO (Integer output) types connected to control (the user has sufficient access rights) opens the control window that consists of two tabs:

[Object status and control](#)  
[Object information](#)

### Object status and control



1	Object name.
2	Object description.
3	Current value and technical units of the object. <b>Note:</b> If the object is in the <i>Default value</i> state (see the tabs <a href="#">Default manual ctrl</a> or <a href="#">Default automatic ctrl</a> ), there is displayed the text <b>Default value</b> instead of <b>Current value</b> .
4	Value time.
5	<a href="#">Object states</a> .
6	Object value flags (user attributes). There are shown the flags, the value of which is TRUE.
7	Acknowledges the object value.
8	Limits defined for the object: <VLL, LL, HL, VHL>. VLL - Very Low Limit (the lowest limit) LL - Low Limit HL - High Limit VHL - Very High Limit (the highest limit)

9	Opens the <a href="#">dialog box to control the current process alarm</a> .
10	Acknowledges given process alarm.
11	Telemetric value of the object. <b>Note:</b> Value is shown if the object is in the <i>Default value</i> state (see the tabs <a href="#">Default manual ctrl</a> or <a href="#">Default automatic ctrl</a> ).
12	Part of the control window for <a href="#">controlling the output and default value</a> .
	Opens a <a href="#">dynamic graph</a> of the object.
	Opens a <a href="#">multigraph</a> of the object.
	Edit object. Only when process CNF is running.
	Inserts the object into the current page of the <a href="#">Browser</a> if opened. If is not opened, clicking the button opens it and inserts the object into the first page of the Browser.
	Copies the object name to Clipboard.
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The bottom of the tab contains the tabs allowing to control the object output (the tabs [Manual ctrl](#) and [Automatic ctrl](#)) and default value of the object (the tabs [Default manual ctrl](#) and [Default automatic ctrl](#)).

**MANUAL CTRL**

The tab allows to set manually a value of the object along with user attributes (flags). It contains the button **Activate**, current object value and value time. Clicking the button **Activate** opens the dialog box to confirm the activation of the *Manual control* status for the object. After clicking the buttons **Yes** and **Execute** in that dialog box, the tab **Manual ctrl** has the following appearance:

Manual ctrlAutomatic ctrlDefault manual ctrlDefault automatic ctrl

ActivateManual control

70

33

SetExecute

12

2

Nastav

5 Maximálny krok:

1,51,54,5

1	Input edit box to type a value (text) of the output object.
2	Opens the dialog box to set flags of the output object value.
3	Depending on the <b>Execute</b> button, the <b>SET</b> button is used as follows:  1. If the <b>Execute</b> button is NOT in the control window, then clicking the <b>Set</b> button sets up given output object value along with value flags (attributes). 2. If the <b>Execute</b> button IS in the control window, then clicking the <b>Set</b> button just "prepares" given output object value along with value flags (attributes) to set.

4	Clicking the button sets up the given output object value and value flags "prepared" to set by clicking the button <b>Set</b> .  <b>Note:</b> The button <b>Execute</b> is in the control window, if the option <b>Acknowledge</b> is checked in the object configuration in the process <a href="#">D2000 GrEditor</a> .
5	Maximum step - limit the maximum possible change of the entered parameter (step) <ul style="list-style-type: none"><li>• button to set the lower limit of possible change from the current value</li><li>• value of the maximum possible change</li><li>• button to set the upper limit of the possible change from the current value</li></ul>

**AUTOMATIC CTRL**

The tab allows to use a value of the control object as the output object value. It contains the button **Activate**, current object value and value time. Clicking the button **Activate** opens the dialog box to confirm the activation of the *Automatic control* status for the object. In the mode, the value of the output object copies the value and flags of the control object (the option **Control object** in the I/O tag configuration).

Manual ctrl Automatic ctrl Default manual ctrl Default automatic ctrl

Activate Automatic control

Control object value:

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10:29:19 AM 11/23/2010 2 3

1	Value of the control object.
2	Time of the control object value.
3	Flags (user attributes) of the control object value.

**DEFAULT MANUAL CTRL**

The tab allows to set manually a default value of the object along with user attributes (flags). It contains the button **Activate**, current object value and value time. Clicking the button **Activate** opens the dialog box to confirm the activation of the *Default value* status for the object. After clicking the buttons **Yes** and **Execute** in that dialog box, the tab **Default manual ctrl** has the following appearance:

Manual ctrl Automatic ctrl Default manual ctrl Default automatic ctrl

Activate Default manual control 3 4

41 1

Set Execute 2

A \_ \_ L \_ \_

2 Nastav

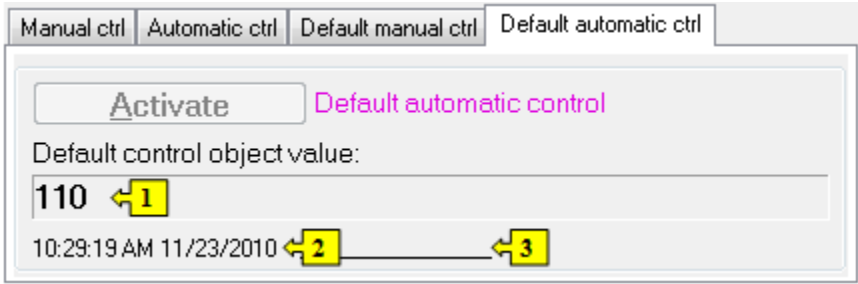
5 Maximálny krok:

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1	Input edit box to type a default value (text) of the object.
2	Opens the dialog box to set flags of the default value.
3	Depending on he button <b>Execute</b> in the control window, the button <b>Set</b> is used as follows:  1. If the button <b>Execute</b> is NOT in the control window, then clicking the button <b>Set</b> sets up the default value and value flags. 2. If the button <b>Execute</b> IS in the control window, then clicking the button <b>Set</b> just "prepares" the default value and value flags to set.
4	Clicking the button sets up the default value and value flags "prepared" to set by clicking the button <b>Set</b> .  <b>Note:</b> The button <b>Execute</b> is in the control window, if the option <b>Acknowledge</b> is checked in the object configuration in the process <a href="#">D2000 GrEditor</a> .
5	Maximum step - limit the maximum possible change of the entered parameter (step)  <ul style="list-style-type: none"><li>• button to set the lower limit of possible change from the current value</li><li>• value of the maximum possible change</li><li>• button to set the upper limit of the possible change from the current value</li></ul>

**DEFAULT AUTOMATIC CTRL**

The tab allows to use a value of the control object as the default value. In the mode, the value of the object copies the value of the control object (the option Control object in the I/O tag configuration). Clicking the button **Activate** opens the dialog box to confirm the activation of the *Default value* status for the object.



1	Value of the control object.
2	Time of the control object value.
3	Flags of the control object value.