

Window "General" - Overview

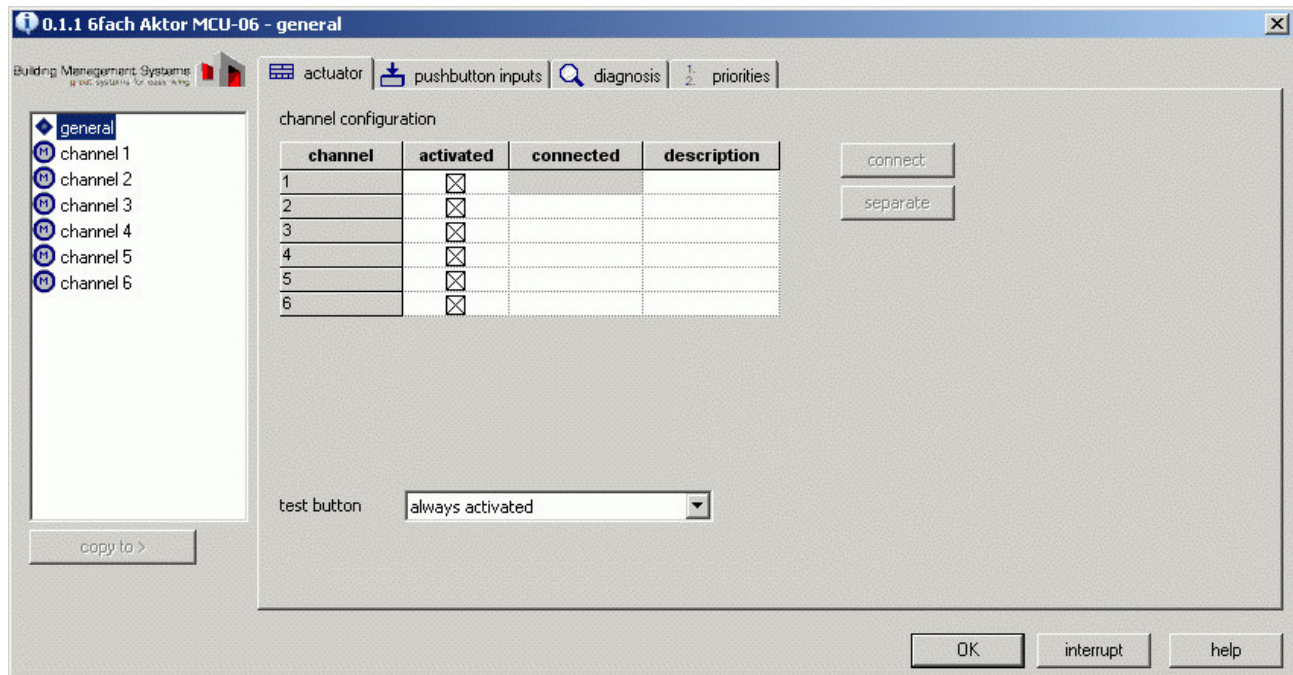
Purpose and Content

In the window "General", you can:

- set parameters for all channels
- perform a diagnosis

For this purpose, the window contains a number of tabs which are visible depending on actuator type and access level.

The following figure shows the window for MCU actuators at the Pro access level:



A Brief Description of the Items

Item	Purpose / Brief Description
Actuator tab	Configuration of the channels.
Button Inputs tab	Allocation of the button inputs connected directly to the motor channels.
Diagnosis tab	Readout of the current actuator states for checking the function.
Priorities tab	Specify the settings which are of relevance for priorities.
OK button	The changes made since the application was started will be saved definitely and the application will be closed.
Cancel button	The changes made since the application was started will be discarded and the application will be closed.
Help button	The help topic associated with the tab will be displayed.

Visible Tabs

As shown in the following, the selection of the access level determines which tabs are visible:

Access Level	Tab			
	Actuator	Button Inputs	Diagnosis	Priorities
Standard	x	x	x	
Full	x	x	x	
Pro	x	x	x	x

Note

The Pro access level is not available for the actuator MCU-09.

Tab "Actuator"

Purpose and Content

You can configure the channels of the actuator on the tab "Actuator", i.e.:

- activate channels
- connect channels with an identical function
- configure the test button(s) on the actuator

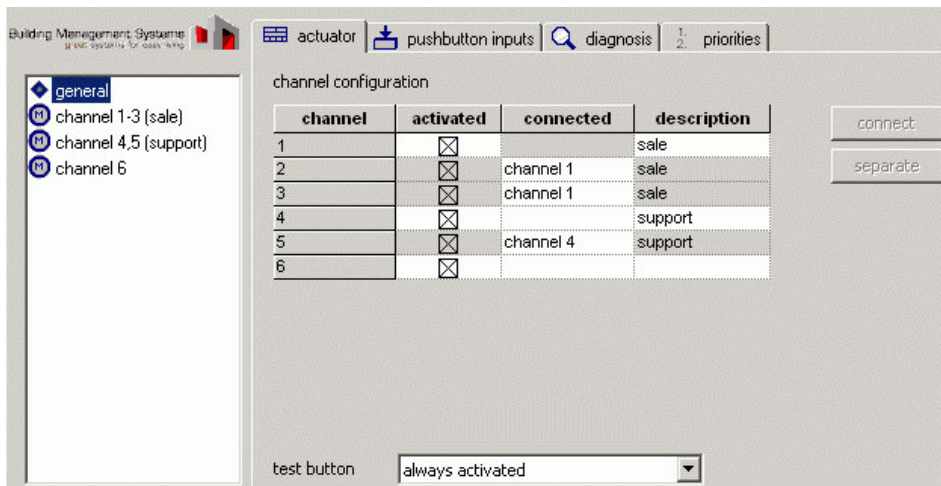
The settings are made in the Channel Configuration table and in the Test Button drop-down list box.

Configuring Channels

How to configure channels:

1. Enter the table Channel Configuration.
2. Select the checkboxes Active for the channels needed:
=> The channels will be activated and will appear on the left side of the window (or deactivated and hidden if unselected).
3. For each channel which is to be connected with another one, click on the Connected drop-down list and select the respective channel:
=> The channels will be connected and displayed accordingly.
Note: You can also connect and disconnect channels by tagging the respective channels under Channel and clicking on the Connect or Disconnect button.
4. Enter appropriate text in the free Designation fields, (e.g. locations).
5. Configure the test button.
Note: This drop-down list box is only visible at the Full and Pro access levels.

Example



Description of the Settings and Parameters

Setting / Parameter	Selection	Description
Show/Hide Channel	<ul style="list-style-type: none"> • Activated • Deactivated 	<p>Activated: Channel will be shown and activated.</p> <p>Deactivated: Channel will be hidden and deactivated.</p>
Connect Channels	<ul style="list-style-type: none"> • Arbitrary 	<p>Channels with an identical function can be connected. In this case, the communication objects of the respective channels will also be hidden or newly labelled accordingly.</p> <p>The connected channels will be parameterised identically.</p> <p>Application example:</p> <p>Two blinds in one room. Each has its own motor. The blinds are</p>

Test Button

- **Always Active**
- Active when no Bus Voltage
- Active for 30 Min. after Reset

to be operated in parallel.

Note:

If Feedback is activated (on the tab "Feedback"), the feedback objects will still be per channel, even though the channels are connected.

Refers to the test button on the actuator itself:
1 test button is provided for every 3 channels.

Not to be confused with local operation!

Note:

The Test Button option is only visible at the Full and Pro access levels.

Tab "Button Inputs"

Purpose and Content

On this tab, you can:

- allocate buttons connected directly to the actuator to any motor channels of this actuator.

This can also be done if the motor channels are connected and are therefore controlled together from the central unit. It is also still possible to operate the motors individually via the push-buttons at the corresponding inputs.

Allocation is performed using a table with the following items:

Item	Description
Input	Button connected directly to the button input of the actuator (via a wire).
(Columns)	Default setting: Input 1 on channel 1, input 2 on channel 2, etc.
Motor	Channel to which the motor is connected.
(Rows)	A selected checkbox <input checked="" type="checkbox"/> at an intersection point shows which button affects which channel.

Note

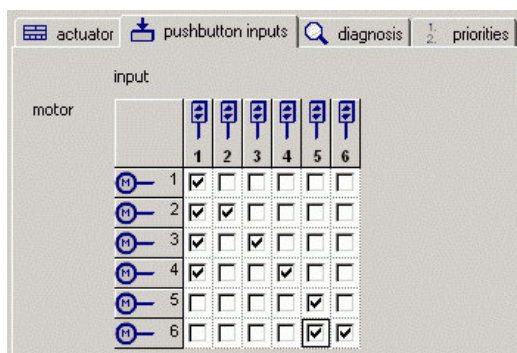
An intersection point is only effective if the option Button Input on the tab "Inputs" below Inputs Connected to Actuator is selected.

Allocating Button Inputs

Proceed as follows:

1. Select the checkboxes ☒ at the desired intersection points.

Example



Note

You can restore the default settings by clicking on the Standard button.

Tab "Diagnosis"

Purpose and Content

On the tab "Diagnosis", you can perform a function test by querying the current states of the actuator.

The tab shows the states and values in a table with the following arrangement:

- Columns: Channel no. and parameters
- Rows: Current values for the respective channels

Performing a Diagnosis

Proceed as follows:

1. Be sure that the ETS is physically connected to the KNX BUS and is online.
2. In the application, click on the Refresh button to obtain the current values.
3. Check to see if the values displayed correspond to the expected states.

Example

channel	height	angle	end position reached	security lock	automatic lock	lock local command	last command	last command	problem
1	30%	78%	No	No	No	No	height	Central comman	no
2	0%	0%	Top	No	No	No	up	Local control	no
3	0%	0%	Top	No	No	No	up	Local control	no
4	100%	100%	No	No	No	No	Unknown	Unknown	no
5	100%	100%	No	No	No	No	Unknown	Unknown	no
6	100%	100%	No	No	No	No	Unknown	Unknown	no

update

software version of the 1.9

Notes

- For the parameters "Height" and "Angle", you can switch the display of the value range from 0...255 to 0...100% and back again by clicking on the respective cells.
- The accuracy of the feedback depends on the parameter settings for "Run Time" and "Slat Turning Time" as well as on the drive strategy selected and it can vary.

Description of the Parameters

Parameters displayed in the table columns and possible display values:

Parameter Name	Display	Description
Channel	<ul style="list-style-type: none"> • 1...n 	Channel to which the motor is connected.
Height	<ul style="list-style-type: none"> • 0...255 • 0...100% 	Position of venetian blind: 0 = up, 255 = down 0% = up, 100% = down
Angle	<ul style="list-style-type: none"> • 0...255 • 0...100% 	Definition of the slat angle: 0 = completely open, 255 = completely closed 0% = completely open, 100% = completely closed

End Position Reached	<ul style="list-style-type: none"> • No • Up • Down • Shading 	<p>A display will only be shown if a slat product has been selected on the "Product" tab.</p> <p>No: The venetian blind is located at an intermediate position.</p>
Safety Lock-out	<ul style="list-style-type: none"> • No • Yes 	<p>Shading: The venetian blind is located at the shading position (with 3-limit-switch motors at "DOWN1").</p> <p>Yes: A safety lock-out is active (from EIB/KNX, from the BMS central unit or as defined on the "Logic" tab).</p>
Automatic Lock-out	<ul style="list-style-type: none"> • No • Yes 	<p>Yes: An automatic lock-out is in effect. No commands from the BMS central unit or from "Central Command" communication objects will be executed (except for safety commands and the communication object "Up / Night").</p>
Local-Command Lock-out	<ul style="list-style-type: none"> • No • Limited • Yes 	<p>Yes: An operational lock-out is in effect. The channel cannot be operated with a button.</p> <p>This applies for buttons connected directly to the actuator as well as for "Local Command" communication objects.</p>
Last Command	<ul style="list-style-type: none"> • Up • Down • Height... • Angle... • P1 • P2 • P3 • P4 • Priority Command • Tilt Up • Tilt Down • Shading Pos. • ... 	<p>The last, effective drive command will be displayed.</p>
Source of Last Command	<ul style="list-style-type: none"> • Unknown • Local Operation • Central Command • Local Command • Safety • SCO object • Internal Command 	<p>It will be displayed who sent the last drive command.</p> <p>Internal Command: Internal commands are generated by the reset function of the actuator or by the logic.</p>
Problem	<ul style="list-style-type: none"> • None • Check the motor lead wire • Thermal Protection • Actuator Defective 	<p>Check the power cable of the motor:</p> <p>An interruption of the power supply can cause the feedback "Check the motor lead wire". A more detailed reason is unknown. There are several possibilities of the reason such as disconnection of the motor, defective limit switches or that a motor thermostatic switch triggers.</p> <p>Check connection, limit switches or motor thermostatic switch.</p> <p>Thermal Protection:</p> <p>The Thermal Protection problem can be triggered during motion or during a power interruption. Due to the current position, the end position is signalled unexpectedly by a power interruption and is detected as a thermal protection action.</p> <p>Check the connection, the limit switches and the motor thermostatic switch.</p> <p>Actuator Defective:</p> <p>Check the actuator.</p> <p>The current actuator software version is shown in the display.</p>
Actuator Software Version	<ul style="list-style-type: none"> • Vx.y 	

Tab "Priorities"

=> This tab is not available for the actuator MCU-09

Purpose and Content

You can make settings in accordance to priorities on the "Priorities" tab.

The following two lists are displayed:

- Variable Priorities
- Fixed Priorities

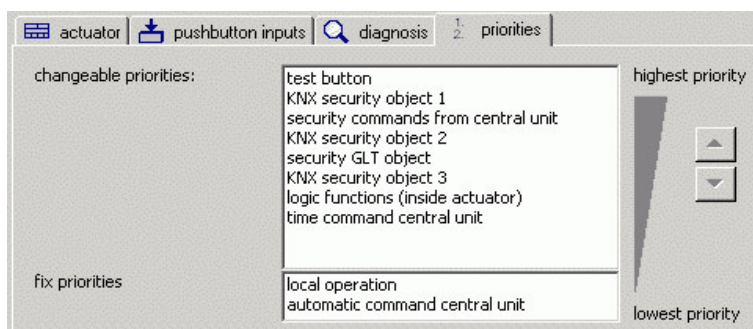
You can change the order of the items shown in the list of variable priorities.

Changing Priorities

Proceed as follows:

1. In the Variable Priorities list, tag the item which is to be moved.
2. Drag the tagged item to the desired position with the mouse button held down or click one or more times on the ▲ or ▼ arrow to move the item step by step.
3. Repeat steps 1 and 2 for any further items.

Example



Note

You can return the priorities to the default order by clicking on the Standard button.

Description of the Items

The table describes the individual items of the "Priorities" tab:

Item	Description
Test Button	Test button on the device.
EIB/KNX Safety Object 1	EIB/KNX safety object, e.g. for fire alarm, cleaning, etc. <i>Note:</i> Not from the BMS central unit.
Safety Commands from the Central Unit	All safety commands which are sent via the SCO object from the BMS central unit to the actuator. The priority level is specified in the central unit.
EIB/KNX Safety Object 2	EIB/KNX safety object, e.g. for fire alarm, cleaning, etc. <i>Note:</i> Not from the BMS central unit.
Safety BCSS Object	Safety via the "BCSS" communication object. Example: Priority command from an overriding control system.
EIB/KNX Safety Object 3	EIB/KNX safety object, e.g. for fire alarm, cleaning, etc. <i>Note:</i> Not from the BMS central unit.
Logic Function (within actuator)	Safety inside the actuator, only in connection with the logic function (defined on the "Logic Table" tab).
Central Unit Timer Command	Command from the BMS central unit (via the SCO object).
Local Operation	Local operation command via EIB/KNX ("Local Command" communication object) or via a directly connected button. The priority cannot be changed.
Central Unit Automatic Commands	Automatic commands from the BMS central unit (via the SCO object) or via EIB/KNX "Central Command" communication objects. The priority cannot be changed.

Example: Shading, temperature, etc.