



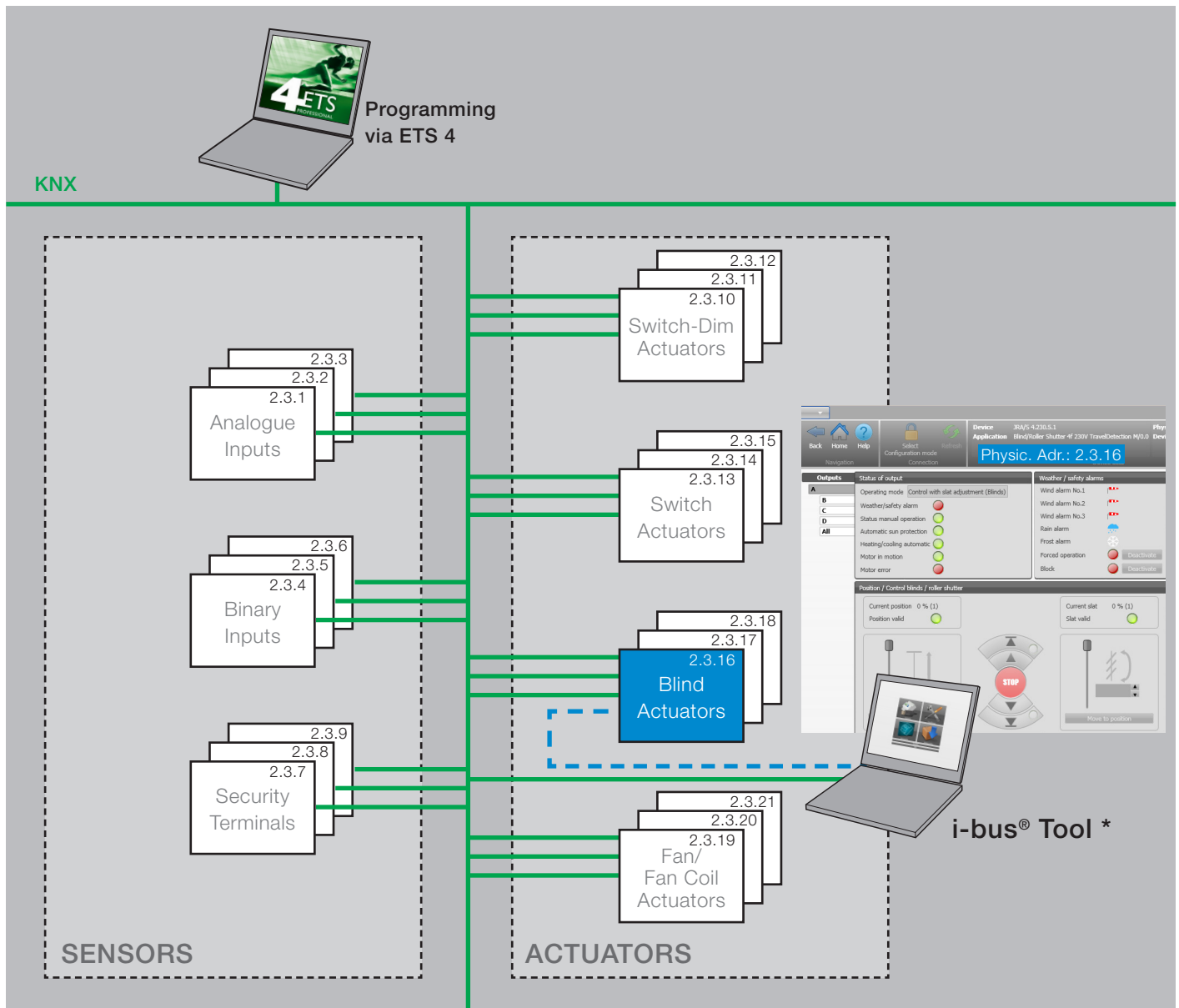
ABB i-bus<sup>®</sup> KNX  
i-bus<sup>®</sup> Tool  
Product Information

# i-bus® Tool

## A professional Service Tool for System Integrators

ABB presents a fully new and innovative software concept with the i-bus® Tool. It supports system integrators during commissioning and service. The i-bus® Tool accesses an ABB i-bus® KNX device via a standard KNX interface (RS232, USB, IP) with the assistance of the physical address. The integrator can trigger the desired functions, read values, simulate states and make settings for the connected device. Internal information and states of the device hardware and software applications, which were not available to the integrators or

only available after considerable effort, are now available in a transparent manner and can be specifically retrieved and partly influenced. The information from status bytes can, for example, be represented as plain text. An important principle is that no divergences to the ETS project can result through the i-bus® Tool.

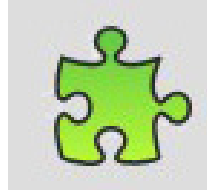


\* The i-bus® Tool can be used on a common PC with the ETS or on a separate PC.

# i-bus® Tool

## Diagnostics and Commissioning Support for the Professional

ABB provides a unique user interface within the i-bus® Tool, a so-called plug-in, for every supported device. The device-specific information is displayed via this plug-in, and the required settings can be made.



The i-bus® Tool is being expanded continuously with new functions and supported devices. The expansions are automatically made available by an online update and can be installed if required.



**Note: The list of all devices and application versions currently supported can be found at -> Connect -> Supported devices.**

The i-bus® Tool is optional, i.e. the ABB i-bus® KNX devices can still be commissioned using just the ETS.

**The i-bus® Tool is free-of-charge and can be downloaded at <http://www.abb.com/knx>.**

If a KNX interface is already parameterized, this can be selected directly via the item *Connect*. Restarting ETS and i-bus® Tool can prove to be helpful with connection problems.



### Please observe the following instructions:

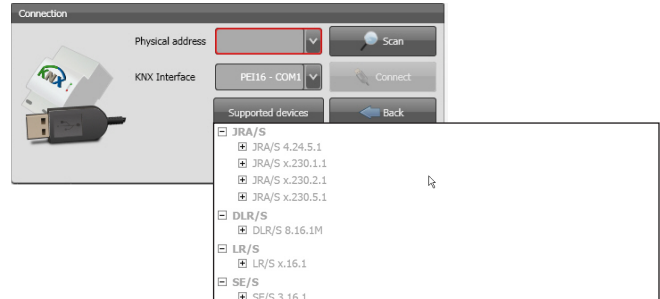
- Before using the i-bus® Tool, the operator should ensure that he has detailed knowledge of the system concerned as well as the workings and programming of the connected ABB i-bus® KNX devices.
- If changes are made to a system in operation, it should be made carefully, as it will have a direct effect on the system.
- It is recommended refresh continuously the device data on the KNX. Continuous refreshing results in an increased KNX bus load. This can lead to impairment of the operating speeds in the KNX network. As an alternative, conversion to manual refreshing is possible.
- The tool “recognizes” in most cases whether device functions are enabled. If a function is not enabled in the ETS, the corresponding window in the i-bus® Tool is greyed out. However, this may not be recognized with some functions. If a determined function cannot be carried out via the tool, the user must check whether this function is enabled in the ETS or whether it is blocked somewhere else.
- The i-bus® Tool can be run without administrator rights and does not require installation. Exception: If the tool is started from a network drive, the user must have full administrator rights for the network drive (read and write access).
- The tool connects to the KNX device via the Falcon driver. If the interface is already in use by another tool (e.g. by the ETS), a connection cannot be established. The existing connection must be ended or a second connection must be used.

# i-bus® Tool

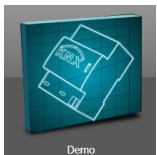
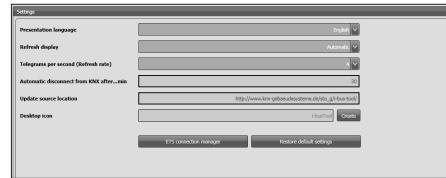
## Menu and Operation of the Start Page



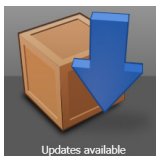
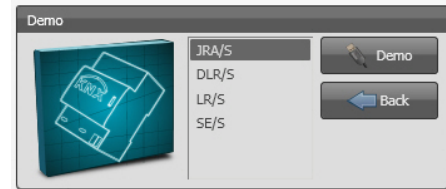
A connection can be established to an ABB i-bus® KNX device via *Connect*. For this purpose, the physical address of the device must be known or the programming button must be pressed. In this sub-menu, a list of all devices and application versions currently supported can be found.



The general settings can be undertaken (language, display refresh, number of telegrams) under *Settings*. The path for the update server should not be modified, as otherwise updating can no longer be executed automatically.



The *demo mode* can be used to demonstrate the function of the individual plug-ins without a connected device. There is no online connection to the KNX system.



All the loaded plug-ins can be shown using the button *Update check* or *Update available*. Updates can be loaded here if they are available.

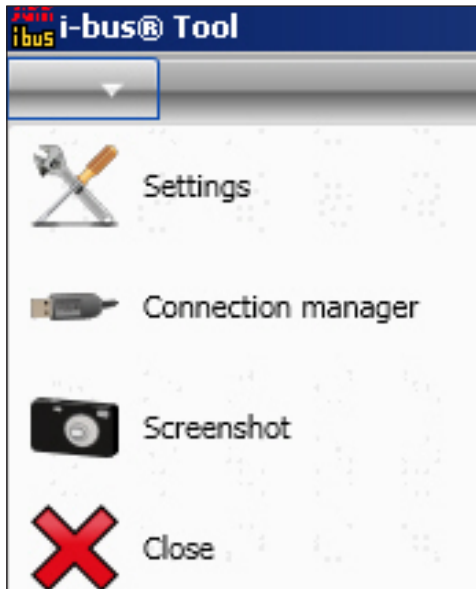


### System requirements:

.NET Framework 4.0, Falcon from 1.8, Windows from XP (32, 64 bit)

# i-bus® Tool

## General Functions (valid for all plug-ins)



A menu with the following menu items can be opened in the upper left corner of the window:

– *Settings*

Just like the button to the home (start) page, several system settings can be undertaken here.

– *ETS connection manager*

Bus access is set via the ETS connection manager.

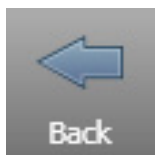
– *Screenshot*

The current window can be “photographed” using this menu item. The generated image file can be used, for example, with support queries.

– *End*

The application is closed.

Navigation bar:



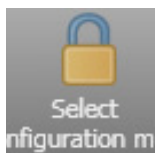
– *Back*

The previous window is shown again.



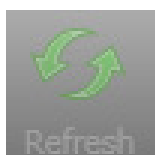
– *Home*

This will take you to the start page.



– *Configuration mode*

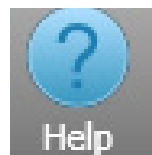
The *Display mode* is initially active if a connection to a device is established. If commands are to be sent to the device, the device must be changed to configuration mode via the *Select configuration mode* button. The on-line connection to the required device is activated and deactivated using this menu item.



– *Refresh*

If “manual” has been set as the refresh mode in the settings, the current state of the device can be read here.

Help menu:



– *Display*

An context help can appear and disappears on the right edge of the monitor with this menu item.

Device data:



The data of the connected device is displayed in addition to the general settings: Device type, application name, physical address.



The image size can be adapted with the slider in the lower status toolbar.

# i-bus® Tool

## Display and evaluate Device Information

With the aid of the plug-in for the ABB i-bus® KNX Blind/Roller Shutter Actuator JRA/S, the following functions, for example, are possible:

- Display and set automatic control
- Display of status values
- Recalling and storing of scenes
- Moving blinds and determination of travel times
- Simulation of alarms and forced operation
- Diagnostic functions



i-bus® Tool – Plug-In for Blind/Roller Shutter Actuator JRA/S

The screenshot displays the software interface for the ABB i-bus KNX Blind/Roller Shutter Actuator JRA/S. The interface is organized into several panels:

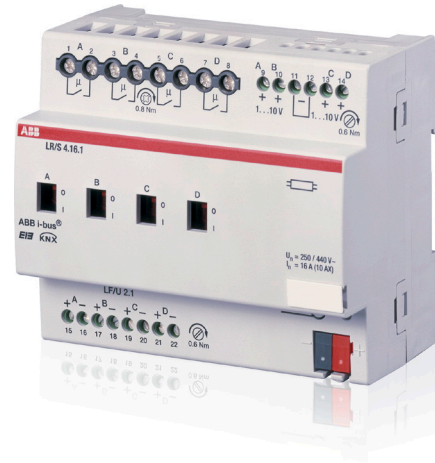
- Navigation:** Includes buttons for Back, Home, Help, Select Configuration mode, and Refresh.
- Device Information:** Shows Device: JRA/S 4.230.5.1, Application: Blind/Roller Shutter 4f 230V TravelDetection M/0.0, Physical address: JRA/S, and Device type: A061.
- Outputs:** A list of outputs (A, B, C, D, All) with corresponding status indicators (green for active, red for error).
- Status of output:** Displays the current operating mode as 'Control with slat adjustment (Blinds)' and various status indicators for weather/safety alarms, manual operation, sun protection, heating/cooling, motor motion, and motor error.
- Weather / safety alarms:** Shows indicators for Wind alarm No.1, 2, and 3, Rain alarm, Frost alarm, Forced operation, and Block.
- Positions 1..4 / Scene:** Allows setting and recalling of four positions and one scene.
- Position / Control blinds / roller shutter:** Features a large 'STOP' button, a 'Trigger travel detection' button, and controls for current position (0% (1)), position validity, current slat (0% (1)), and slat validity. It also includes a 'Move to position' button and a diagram of the shutter mechanism.
- Automatic Control:** Provides settings for automatic control, direct control blocked, automatic control disabled, sun position, current position height for sun, position height for sun, current position slat for sun, position slat for sun, presence, heating, cooling, current room temperature, and room temperature.
- General weather alarms for all channels:** A row of buttons to activate or deactivate Wind alarm No.1, 2, 3, Rain alarm, and Frost alarm.

# i-bus® Tool

## Display and evaluate Device Information

With the aid of the plug-in for the ABB i-bus® KNX Light Controller LR/S, the following functions, for example, are possible:

- Activation/deactivation of light control
- Display of brightness values
- Setting dimming values
- Calibration of constant light control
- Display and setting of parameters for lighting control



i-bus® Tool – Plug-In for Light Controller LR/S

The screenshot shows the i-bus Tool software interface for the Light Controller LR/S. The interface is divided into several sections:

- Navigation:** Back, Home, Help buttons.
- Connection:** Select Configuration mode, Refresh buttons.
- Device data:** Device Application: LR/S 4.16.1 Control Dim 4f 1-10V/0.0; Physical address LR/S; Device type: A050.
- Outputs:** A list of outputs (A, B, C, D, All) with a dropdown menu.
- Additional function:** Function: Light control; Status: Activate.
- Brightness:** Actual value: 0; A slider control with a lightbulb icon and a Write button.
- Relative Dimming:** 100 % Up; Start dimming button.
- Switching:** Status: Switch On.
- Calculation of light control:** 1. Enable calibration (Enable calibration button); 2. Artificial light calibration (Start calibration button); 3. Daylight calibration (Start calibration button).
- Light controller parameter:** Setpoint: 0; Calculated setpoint: 0; Actual Value: 0; Daylight compensation factor: 0. Each parameter has a Write button.
- Sensors:** Sensor 1: 0; Sensor 2: 0; Sensor 3: 0; Sensor 4: 0.

# Contact

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