



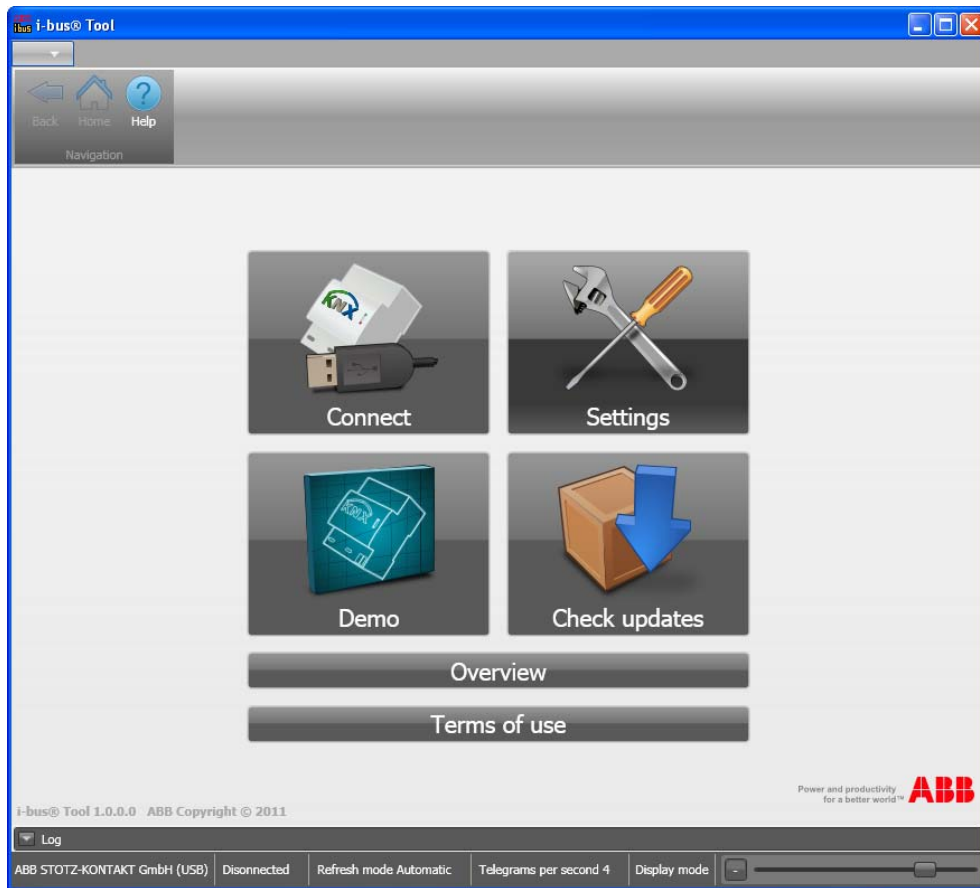
Sebastian Witte STO/GM November 2011

ABB STOTZ-KONTAKT GmbH

ABB i-bus[®] KNX

i-bus[®] Tool

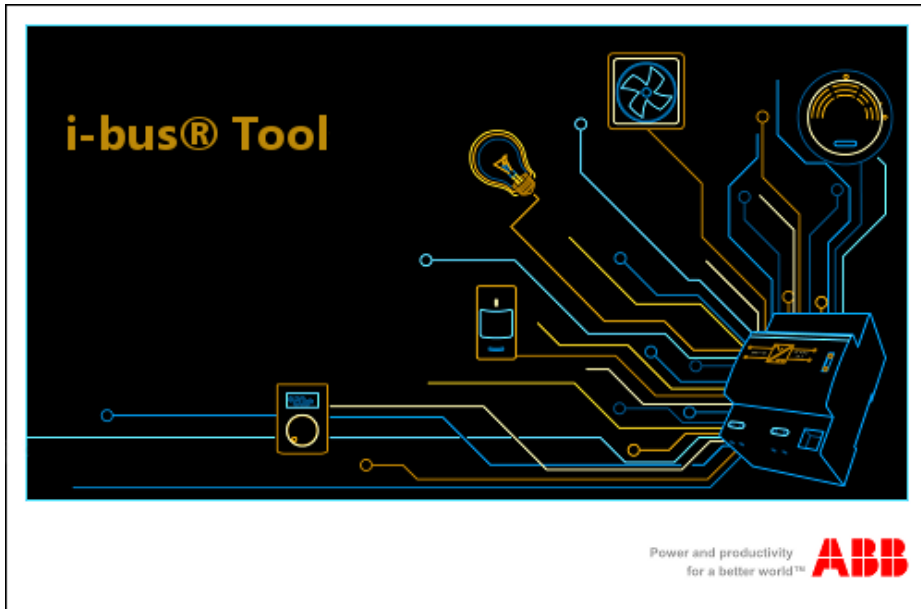
i-bus® Tool Overview



Innovative software concept for diagnostics and commissioning of ABB i-bus® KNX devices

- Display device information
- Simplification of commissioning
- Diagnostic functions
- The tool can be downloaded free-of-charge from the ABB website www.abb.com/knx

i-bus[®] Tool Functions 1



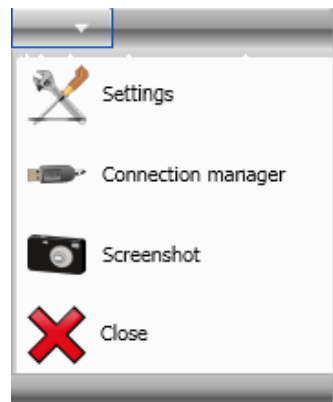
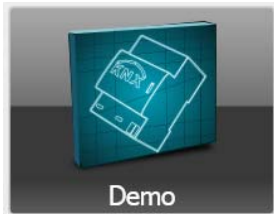
- For each supported device there is a unique user interface (plug-in) within the i-bus[®] Tool
- New functions and plugins are automatically made available by an online update and can be loaded if required
- The i-bus[®] Tool is optional, i.e. the ABB i-bus[®] KNX devices can still be commissioned using just the ETS.
- No divergences to the ETS project can result through the i-bus[®] Tool.

i-bus[®] Tool Functions 2

- The i-bus[®] Tool accesses an ABB i-bus[®] KNX device via a standard KNX interface (RS232, USB, IP).
- The physical address must be known or the programming button must be pressed.
- For the connected device, functions can be triggered, values can be read, states can be simulated and settings can be made.



i-bus[®] Tool Functions 3



- New functions and plug-ins are automatically made available by an online update and can be loaded if required.
- In demo mode, the functions of the plug-ins can be demonstrated without a device being connected.
- If the *Help* button is pressed, a context-sensitive help menu opens.
- A quick access menu for certain functions is available.

i-bus[®] Tool

System requirements

de-DE		File Folder
en-US		File Folder
Licences		File Folder
Logs		File Folder
Resources		File Folder
ShadowCopy		File Folder
ABB.ConfigTool.RuleEn...	15 KB	Application Extension
Autofac.dll	171 KB	Application Extension
EIBA.Interop.Falcon.dll	132 KB	Application Extension
FalconErrors.xml	11 KB	XML-Dokument
ibusTool1.0.zip	3.317 KB	WinZip File
ibusTool.Application.exe	142 KB	Application
ibusTool.Application.EX...	4 KB	CONFIG-Datei
ibusTool.Base.dll	71 KB	Application Extension
ibusTool.Communicatio...	43 KB	Application Extension
ibusTool.Communicatio...	14 KB	Application Extension
ibusTool.Configuration.dll	17 KB	Application Extension
ibusTool.DeviceData.dll	9 KB	Application Extension
ibusTool.exe	9 KB	Application
ibusTool.Extensibility.dll	13 KB	Application Extension
ibusTool.GUI.dll	335 KB	Application Extension
ibusTool.Jra.dll	104 KB	Application Extension
ibusTool.Log.dll	242 KB	Application Extension
ibusTool.Lrs.dll	55 KB	Application Extension
ibusTool.RuleEngineBuil...	6 KB	Application Extension
ibusTool.Ses.dll	85 KB	Application Extension
ibusTool.Update.dll	34 KB	Application Extension
ibusTool.Utils.dll	28 KB	Application Extension
ibusTool.Version.dll	5 KB	Application Extension
ibusTool.vshost.exe	12 KB	Application
ibusTool.vshost.exe.m...	1 KB	MANIFEST-Datei
IronPython.dll	1.462 KB	Application Extension
LauncherLogger.dll	6 KB	Application Extension
Microsoft.Dynamic.dll	930 KB	Application Extension
Microsoft.Expression.D...	120 KB	Application Extension
Microsoft.Practices.Pris...	148 KB	Application Extension
Microsoft.Scripting.Deb...	58 KB	Application Extension
Microsoft.Scripting.dll	163 KB	Application Extension
Microsoft.Windows.She...	164 KB	Application Extension
RibbonControlsLibrary.dll	784 KB	Application Extension
UpdateDescription.xml	6 KB	XML-Dokument
WPFToolkit.Extended.dll	338 KB	Application Extension

System requirements

- Windows XP, Windows 7 (32, 64 Bit)
- Falcon from version 1.8
- .NET Framework 4.0

(same as ETS4)

→ no installation necessary

→ Desktop icon is automatically created

i-bus[®] Tool

Supported devices

[-] JRA/S

- [+] JRA/S 4.24.5.1
- [+] JRA/S x.230.1.1
- [+] JRA/S x.230.2.1
- [+] JRA/S x.230.5.1

[-] DLR/S

- [+] DLR/S 8.16.1M

[-] LR/S

- [+] LR/S x.16.1

[-] SE/S

- [+] SE/S 3.16.1

Currently, the following devices are supported (November 2011)

- New Blind/Roller Shutter Actuators (JRA/Sx.y.z.1)
- DALI Light Controller^(*) (DLR/S 8.16.1M)
- 1-10V Light Controller (LR/S x.16.1)
- Energy Actuator (SE/S 3.16.1)

→ new devices are added continuously

^(*) For the DLR/S, only the Light Controller functionality is supported. For commissioning of the DALI functionality, the DALI tool is required for the time being.

i-bus[®] Tool

First steps



- Choose KNX interface and connect to device.

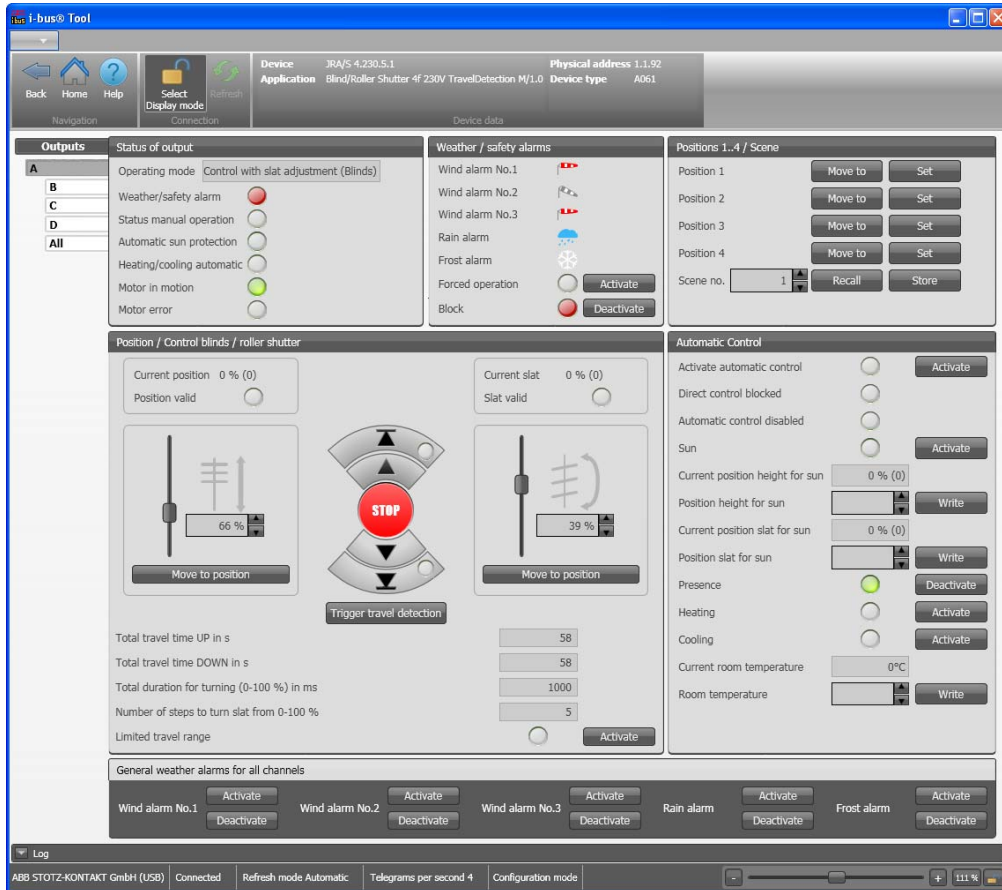


- Select configuration mode.



- Change settings if necessary (presentation language, refresh rate)

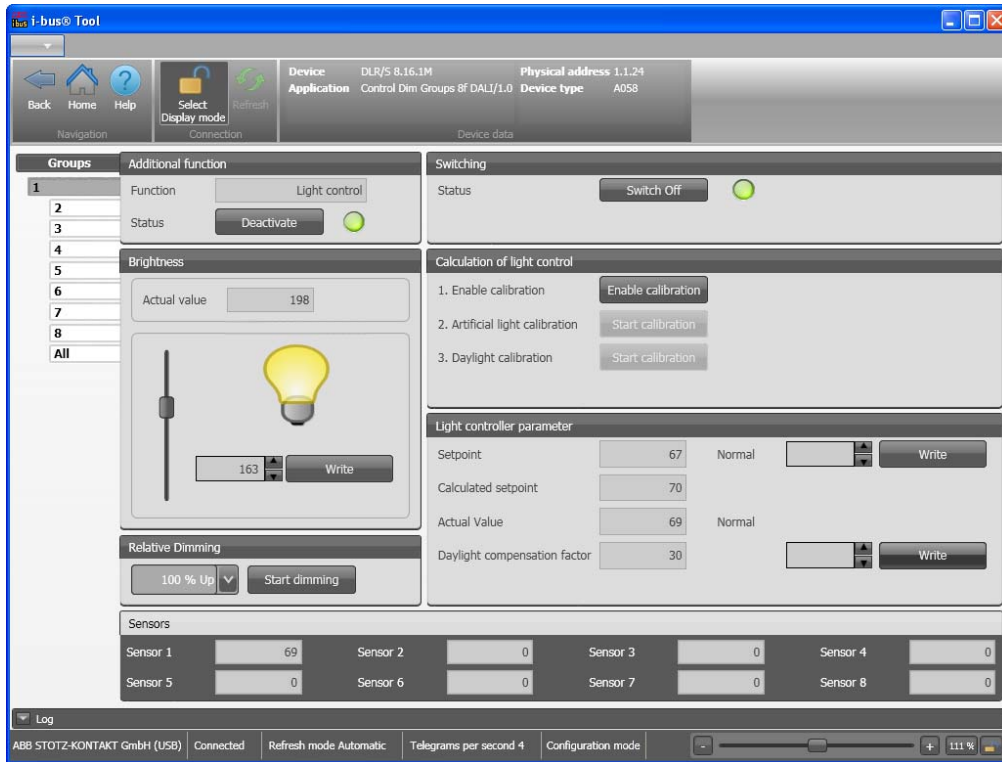
i-bus[®] Tool Plug-ins



Blind/Roller Shutter Actuators (JRA/Sx.y.z.1)

- Display of status information, alarms and travel times
- Control blind/roller shutter directly (move up/down and slat adjustment)
- Simulate weather alarms
- Automatic Control

i-bus® Tool Plug-ins



Light Controller (DLR/S8.16.1M^(*) and LR/Sx.16.1)

- Display of parameterized additional function
- Set brightness values
- Artificial light calibration, daylight calibration
- Display sensor values of the connected light sensors

^(*) For the DLR/S, only the Light Controller functionality is supported. For commissioning of the DALI functionality, the DALI tool is required for the time being.

i-bus[®] Tool Plug-ins

The screenshot shows the i-bus Tool interface for an Energy Actuator (SE/S3.16.1). The device information is: SE/S 3.16.1, Physical address 1.1.88, Application Switch Measure 3f/1.2, Device type A072. The interface is divided into several sections:

- Functions:** Metering, Values, Status.
- Active power:** Active power total 5582 W, Active power A 1885 W, Active power B 1849 W, Active power C 1849 W.
- Current:** Current A 8,315 A, Current B 8,146 A, Current C 8,157 A.
- Voltage:** Voltage A 226,714 V, Voltage B 226,967 V, Voltage C 226,422 V.
- Apparent power:** Apparent power A 1887 VA, Apparent power B 1849 VA, Apparent power C 1844 VA.
- Power factor:** Power factor A 1,00, Power factor B 1,00, Power factor C 1,00.
- Crest factor:** Crest factor A 1,39, Crest factor B 1,39, Crest factor C 1,39.
- Frequency:** Frequency 50,00 Hz.

The status bar at the bottom shows: Log, ABB STOTZ-KONTAKT GmbH (USB), Connected, Refresh mode Automatic, Telegrams per second 4, Configuration mode, and a zoom slider set to 111%.

Energy Actuator (SE/S3.16.1)

- Display all instrument and power values
- Display status bytes in clear text

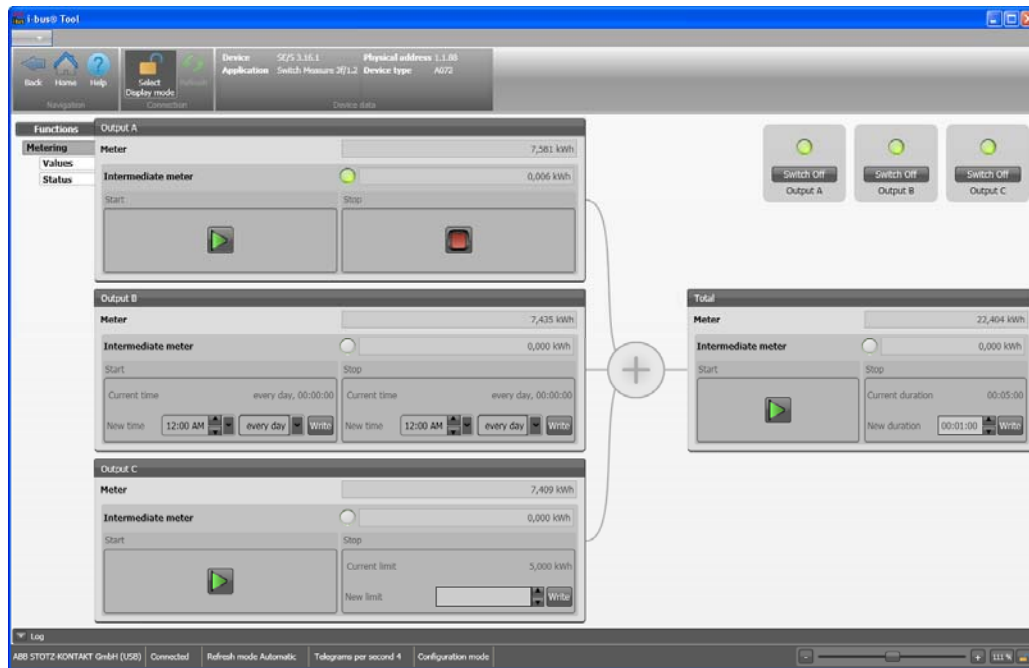
The screenshot shows the i-bus Tool interface for an Energy Actuator (SE/S3.16.1) displaying status bytes. The device information is: SE/S 3.16.1, Physical address 1.1.88, Application Switch Measure 3f/1.2, Device type A072. The interface is divided into several sections:

- Functions:** Status.
- Microcontroller active:** Indicated by a green circle.
- Frequency error:** Indicated by a grey circle.
- Status byte output A:** Safety priority 1 (green), Safety priority 2 (grey), Safety priority 3 (grey), Forced operation active (grey), Function time active (grey), Active power negative (grey).
- Status byte output B:** Safety priority 1 (green), Safety priority 2 (grey), Safety priority 3 (green), Forced operation active (green), Function time active (grey), Active power negative (grey).
- Status byte output C:** Safety priority 1 (grey), Safety priority 2 (grey), Safety priority 3 (green), Forced operation active (grey), Function time active (grey), Active power negative (grey).

The status bar at the bottom shows: Log, ABB STOTZ-KONTAKT GmbH (USB), Connected, Refresh mode Automatic, Telegrams per second 4, Configuration mode, and a zoom slider set to 111%.

(*) From application version 1.2

i-bus[®] Tool Plug-ins



Energy Actuator (SE/S3.16.1)

- Switching of outputs
- Show meters and intermediate meters
- Display the parameterized start- and stop condition (Trigger 1/2)
- Start and stop intermediate meters

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