



REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

KNX Controller

Smart Home App Documentation

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1 INTRODUCTION

Thank you for your trust, and the purchase of the **KNX Controller**-Smart Home App for the BAB **APP**MODULE. With this **KNX Controller**-Smart Home App you get a simple connection of your iOS or Android device to your KNX actuators with the Smart Screens app for iOS and Android.

This documentation will help you get started with the Smart Home App and aims to improve your setup experience.

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IMPORTANT INFORMATION ON THE OPERATING INSTRUCTIONS

We reserve the right continually improve the product. This entails the possibility that parts of this documentation might be out-of-date. You will find the latest information at:

www.bab-appmarket.de

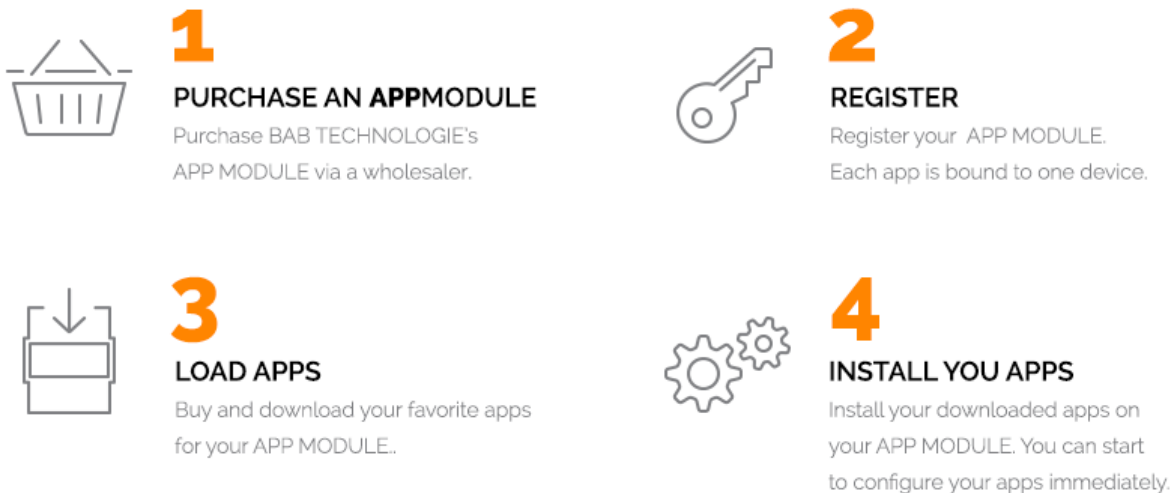
2 KNX CONTROLLER FUNCTIONAL OVERVIEW

Control any KNX actuators, for example with the Smart Screens App for iOS and Android.

3 THE INNOVATIVE, MODULAR SMART HOME APP CONCEPT FOR THE BUILDING AUTOMATION

The innovative, modular Smart Home App concept for building automation. The **APPMODULE** brings the innovative, modular Smart Home App concept into building automation. You can mix and match any of the diverse applications that are available to integrate third-party solutions. With these Smart Home Apps from the dedicated **BAB APPMARKET**, the **APPMODULE** becomes a tailor-made integration unit for your building automation.

HOW IT WORKS



Manufacturer of the **APPMODULE** [BAB TECHNOLOGIE GmbH](http://www.bab-tec.de)

Distribution of all Smart Home Apps for the **APPMODULE** [BAB APPMARKET GmbH](http://www.bab-appmarket.de)

Smart Home App developer [REAL SMART HOME GmbH](http://www.real-smart-home.de)

3.1 INFORMATION ABOUT THE APPMODULE

Please refer to the separate product documentation of the **APPMODULE** for a detailed product description and setup instructions.

http://www.bab-tec.de/index.php/download_de.html

Product variants:

The **APPMODULE** is available in three variants:

- **APPMODULE KNX/TP** – for stand-alone use on KNX/TP Bus
- **APPMODULE EnOcean** – for stand-alone use in the EnOcean wireless network
- **APPMODULE IP** – for use in an IP-based KNX installation (KNXnet/IP) or as extension for an EIBPORT

4 SMART HOME APP INSTALLATION / UPDATE

Please proceed as follows to install a Smart Home App.

1. Open the **APPMODULE** web page: Enter <IP Address of **APPMODULE** > into your browser's address bar and press Enter. The **APPMODULE** web interface will appear.
2. Log in with your user credentials. Please refer to the **APPMODULE** documentation for login details.
3. Click on the menu entry "App Manager"
4. You are now on the page where already installed Smart Home Apps are listed. The list will be empty if no Smart Home Apps have been installed. Click "Install App" in order to install a new Smart Home App.
5. Now click on "Select App"; a file selector window will appear. Choose the Smart Home App » **KNX Controller** « and click "OK".

The Smart Home App » **KNX Controller** « must first be downloaded from the **BAB** APPMARKET (www.bab-appmarket.de).

After the message "Installation successful" appears, click "OK". You are ready to configure the Smart Home App.

To update a Smart Home App manually you have to proceed as follows

1. To update an already installed Smart Home App, click on the App icon in the "App Manager".
2. The detail view of the Smart Home App appears. Click on "Update App" to select the Smart Home App package and start the update. The update version must be downloaded from the **BAB** APPMARKET.

After the message "Installation successful" appears, click "OK". The Smart Home App has been updated. Your instance configurations will remain unchanged.

The Smart Home App can also be updated directly in the web interface. Without having to download the Smart Home App from the **BAB** APPMARKET first.

In the "App Manager" available Smart Home App updates are reported

Information

To configure the Smart Home App please use Google Chrome.

5 SMART HOME APP SETTINGS

Control any KNX actuators, for example with the Smart Screens App for iOS and Android.

5.1 KNX CONTROLLER

As soon as the app is installed, you can create so called "Instance". An Instance is one of several objects of the same class.

In order to create an instance, click on the symbol "Create Instance".

Instance Name:

Choose a name for this new instance.

Comment:

Insert a description what this instance does.

5.2 ELEMENTS

Switches

Create here your list of on/off switches.

Activation if add, copy, edit or delete, it opens another window.

Name

Insert the name of the switch.

Group Address to control KNX (EIS 1)

Insert the group address here to set a value.

Group Address for KNX state (EIS 1)

Insert the group address here to read a value.

Push Buttons (EIS 14 0-255)

Create here your list of push buttons.

Activation if add, copy, edit or delete, it opens another window.

Name

Insert the name of the Push Button.

Group Address to control KNX (EIS 14 0-255)

Insert the group address here to set a value.

Group Address for KNX state (EIS 14 0-255)

Insert the group address here to read a value.

Value 1

Value to send on button press.

Value 2

Alternative value to send on button press (if push button mode is set to toggle).

Push Button Mode

Select the mode for the button here.

- Always send value 1
- Toggle between value 1 and value 2

Sliders

Create here your list of sliders (0 - 100%)

Activation if add, copy, edit or delete, it opens another window.

Name

Insert the name of the slider.

Group Address to control KNX (EIS 6 0-100%)

Insert the group address here to set a value.

Group Address for KNX state (EIS 6 0-100%)

Insert the group address here to read a value.

Value Inputs

Create here your list of value inputs.

Activation if add, copy, edit or delete, it opens another window.

Name

Insert the name of the value input.

Group Address to control KNX

Insert the group address here to set a value.

Group Address for KNX state

Insert the group address here to read a value.

Data Type

Select the data type for the group address.

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point
- EIS 14: 1 Byte (0 - 255)

**Minimum**

The smallest permitted value. Smaller values will be ignored.

Maximum

The largest permitted value. Larger values will be ignored.

6 ATTACHMENT

6.1 DATAPPOINT TYPES

function	EIS type	DPT	typical function	typical values	data	identifier
PriorityPosition	EIS1	DPT 1*	Wind alarm	1=high and inhibit	1 Bit	1-bit
Switch	EIS1	DPT 1*	Light switching	0=Off; 1=On	1 Bit	1-bit
DimControl	EIS2	DPT 3*	Dimming	0=Off; 1=On xxx=relative dimming 0-255=absolute dimming	1Bit 4Bit 8Bit	3-bit controlled
Time	EIS3	DPT 10*	Time	hh:mm:ss	3Byte	Time
Date	EIS4	DPT 11*	Date	dd:mm:yyyy	3Byte	Date
Value	EIS5	DPT 9*	Float Vaue IEEE	[-671088.64 ... 670760.96]	1Byte	2-byte float value
DimValue	EIS6	DPT 5*	Percent	0...100%	1Byte	8-bit unsigned value
DriveBlade Value	EIS6	DPT 5*	Angle value	0...100%; 0...255	1Byte	8-bit unsigned value
DriveShutter Value	EIS6	DPT 5*	Position value	0...100%; 0...255	1Byte	8-bit unsigned value
Position	EIS6	DPT 5*	Control value Heating	0...100%; 0...255	1Byte	8-bit unsigned value
DriveMove	EIS7	DPT 1*	Move shutter	0=up; 1=down	1Bit	1-bit
DriveStep	EIS7	DPT 1*	Adjusting the slat	0=up; 1= down; 0 or 1 during movement=stop	1Bit	1-bit
PriorityCont-rol	EIS8	DPT 2*	Priority	0,1 switch; 3=forced off; 4=forced on	2Bit	1-bit controlled
FloatValue	EIS9	DPT 14*	IEEE	Floating-point value	4Byte	4-byte float value
Counter 16bit	EIS10	DPT 7*	Counter 16 bit	0 ... 65.535	2Byte	2-byte unsigned value
Counter 16bit	EIS10	DPT 8*	Counter 16 bit signed	-32.768 ... 32.767	2Byte	2-byte signed value
Counter 32bit	EIS11	DPT 12*	Counter 32 bit	0 ... 4.294.967.295	4Byte	4-byte unsigned value
Counter 32bit	EIS11	DPT 13*	Counter 32 bit signed	-2.147.483.648 ... +2.147.483.647	4Byte	4-byte signed value
Access Control	EIS12	DPT 15*	Access control	Card number	4Byte	Entrance access
Char	EIS13	DPT 4*	ASCII characters	Character	1Byte	Character
Counter 8bit	EIS14	DPT 5*	Value	0 ... 255	1Byte	8-bit unsigned value
Counter 8bit	EIS14	DPT 6*	Value signed	-128 ... 127	1Byte	8-bit signed value
String	EIS15	DPT 16*	String	max. 14 characters	14 Byte	Character string

EIB/KNX devices exchange fixed prescribed data formats with each other. These are defined in types.
The old designations of the types are EIS (EIB Interworking Standard)
The new designations are DPT (Data Point Type)