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 This entails the possibility that parts of this documentation might be out-of-date.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

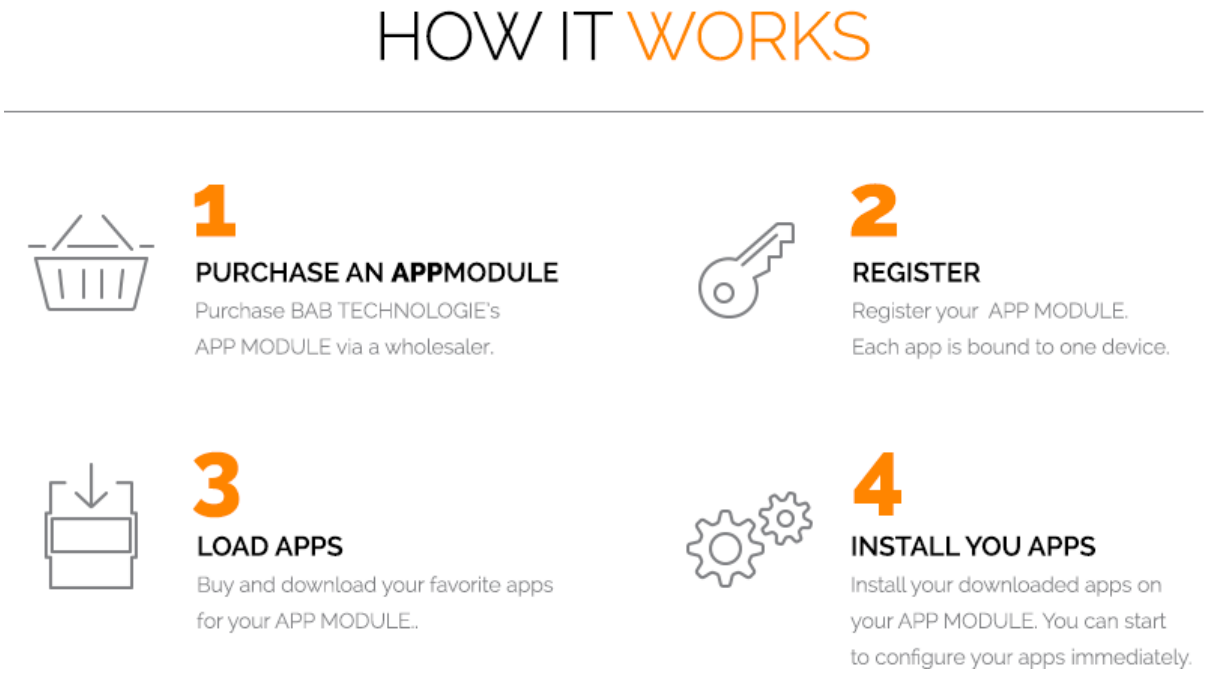
With this app for the **APP**MODULE you can control any KNX actuator in combination with the "Smart Screens App" for iOS and Android. The "Smart Screens App" is a free app for easy control of IoT and KNX components. Learn all about "Smart Screens" at: https://bab-technologie.com/smart-screens

HIGHLIGHTS

- Ready to use for all KNX components
- Configuration of up to 50 switches
- Configuration of up to 50 push buttons
- Configuration of up to 50 value inputs
- Configuration of up to 50 sliders

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

The innovative, modular Smart Home App concept for building automation. The **APP**MODULE 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 ingrate third-party solutions. With these Smart Home Apps from the dedicated **BAB** APPMARKET, the **APP**MODULE becomes a tailor-made integration unit for your building automation.



Manufacturer of the **APP**MODULE BAB TECHNOLOGIE GmbH

Distribution of all Smart Home Apps for the **APP**MODULE BAB APPMARKET GmbH

Smart Home App developer REAL SMART HOME GmbH

3.1 INFORMATION ABOUT THE APPMODULE

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

https://bab-tec.de/appmodule#downloads

Product variants:
The **APP**MODULE is available in three variants:

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

4 SMART HOME APP INSTALLATION / UPDATE

Please proceed as follows to install a Smart Home App.

1. Open the **APP**MODULE web page: Enter <IP Address of **APP**MODULE > into your browser's address bar and press Enter. The **APP**MODULE web interface will appear.

2. Log in with your user credentials. Please refer to the **APP**MODULE 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 configurate 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.

Blinds

Create your list of blinds here

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

Name

Insert the name of the blind.

Group Address to move the blinds up and down EIS 1)

Insert the group address here to move the blind / shutter up or down.

Group address for the feedback of the move status (EIS 1)

Enter here the group address to get the feedback if the blind / shutter is moving or not.

Group Address to stop the blinds (EIS 1)

Enter the group address here to stop the movement of the blind / shutter.

Group Address to move the blinds to an absolute position (EIS 6 0–100%)

Enter the group address here to move to a specific position of the blind / shutter.

Group address for position feedback (EIS 6 0–100%)

Enter the group address here to get the status of the current position.

6 ATTACHMENT

6.1 DATAPOINT TYPES

Function	EIS type	Data point type	Typical value	Data	Identifier
Switching	EIS 1	DPT 1.yyy	[0] = Off | FALSE; [1] = On | TRUE	1 Bit	1-bit
Relative Dimming	EIS 2	DPT 3.yyy	**„Dimming steps“**: [[0],[2…7]] Darker [2, 4, 8, 16, 32, 64] -Steps and [[1],[2…7]] Brighter [2, 4, 8, 16, 32, 64]-Steps **„Start/Stop Diming“**: [0,8] Stop; [1] Darker und [9] Brighter	4 Bit	4-bit
Time	EIS 3	DPT 10.yyy	hh:mm:ss	3 Byte	Time
Date	EIS 4	DPT 11.yyy	dd:mm:yyyy	3 Byte	Date
Floating point number (short)	EIS 5	DPT 9.yyy	-671 088,64 … 670 433,28	2 Byte	2-byte float value
Percent, Position, Brightness, …	EIS 6	DPT 5.yyy	0 … 100%	1 Byte	8-bit unsigned value
Blinds Drive/adjust	EIS 7	DPT 1.yyy	[0] = up; [1] = down When driving [0,1] = stop	1 Bit	1-bit
Priority	EIS 8	DPT 2.yyy	[0], [1] Switch on, off; [3] = Forced off; [4] = Forced on	2 Bit	1-bit controlled
IEEE Floating point number (long)	EIS 9	DPT 14.yyy	4-Octet float value; IEEE 754	32 Bit	4-byte float value
Counter 16 Bit Unsigned	EIS 10u	DPT 7.yyy	0 … 65.535	16 Bit	2-byte unsigned value
Counter 16 Bit Signed	EIS 10	DPT 8.yyy	-32.768 … 32.767	16 Bit	2-byte signed value
Counter 32 Bit Unsigned	EIS 11u	DPT 12.yyy	0 … 4.294.967.295	32 Bit	4-byte unsigned value
Counter 32 Bit Signed	EIS 11	DPT 13.yyy	-2.147.483.648 … 2.147.483.647	32 Bit	4-byte signed value
Access control	EIS 12	DPT 15.yyy	Access data	4 Byte	Entrance access
ASCII Character	EIS 13	DPT 4.yyy	Char	1 Byte	Character
Counter 8 Bit Unsigned	EIS 14u	DPT 5.yyy	0 … 255	8 Bit	8-bit unsigned value
Counter 8 Bit Signed	EIS 14	DPT 6.yyy	-128 … 127	8 Bit	8-bit signed value
String	EIS 15	DPT 16.yyy	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)