



REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

RE:BLINDS

Smart Home App Documentation

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INTRODUCTION

Thank you for your trust, and the purchase of the **RE:BLINDS** -app for the BAB **APPMODULE**. The **RE:BLINDS** - app upgrades your existing blinds control with position control and position tracking. This makes it a cost-effective alternative to renewing the actuators.

This documentation will help you get started with the 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 This entails the possibility that parts of this documentation might be out-of-date.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 RE:BLINDS – FUNCTIONAL OVERVIEW

This app allows you to control and track the position of a roller blind which does not communicate its position independently. With the help of a time reference (the times for raising and lowering are thus manually determined), all of the functions of modern roller blind actuators can also be implemented on older systems.

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

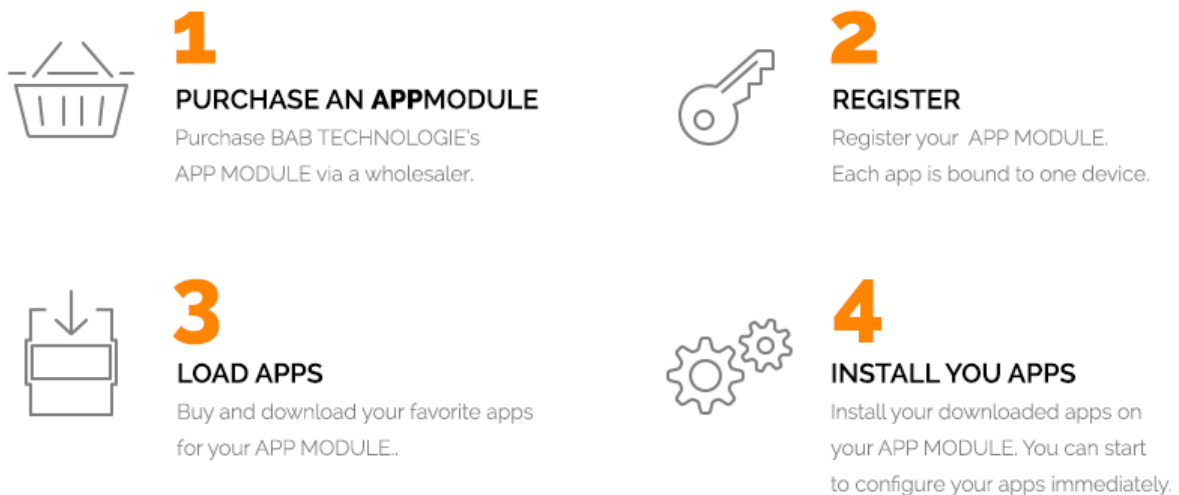


Figure 1: APPMODULE - How it works

Manufacturer of the **APPMODULE** [BAB TECHNOLOGIE GmbH](#)

Distribution of all Smart Home Apps for the **APPMODULE** [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 **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 »RE:BLINDS« and click "OK".

The Smart Home App » RE:BLINDS « 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 **BABAPPMARKET** 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

This APP determines the position of the blind from the measured movement time. To do this, you must determine the movement times for raising and lowering the blind once. In other words, stop the time that a blind or roller shutter needs to move from bottom to top or vice versa to the end position. When moving upwards, the drive motor must lift the weight of the blind or roller shutter and this counteracts gravity. When moving downwards, gravity acts with the direction of travel. This can lead to different travel times.

If, for example, you do not want to move the blind or roller shutter to the lower end position (to leave a ventilation slot), you can define a so-called bookmark. For example, you can enter 80 % as the maximum. If you press the "Bookmark switch" (separate group address) with On (value 1), the blind would only move to 80 % and not to the lower end position.

External influences can cause slight shifts in position over time. It is therefore important that the RE:BLINDS app regularly receives reliable reference values. The app gets the reference values during a reference run or during each full run up and down (from the lower to the upper end position and vice versa). The app has its own communication object for triggering the reference movement.

5.1 INSTANCE

Information

The browser-session expires after a period of 60 minutes due to inactivity. Unsaved changes to the configuration will be lost.

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 following symbol "Create Instance".

Instance Name:

Choose a name for this new instance.

Comment:

Insert a description what this instance does.

5.1.1 GENERAL SETTINGS

Time Down

Insert the amount of time the shutter needs to completely move from top to bottom in seconds.

Time Up

Insert the amount of time the shutter needs to completely move from bottom to top in seconds.

Minimum

Insert a minimal position for the Bookmark Toggle in %.

Maximum

Insert a maximal position for the Bookmark Toggle in %.

Invert

- Up 0; Down: 1
- Up 1; Down: 0

5.1.2 COMMUNICATIONOBJECTS/ GROUP ADDRESSES

Down/Up (EIS 1)

Insert group address of the shutter movement button (1: down, 0: up).

Stop (EIS 1)

Insert group address of the stop button.

Bookmark Toggle (EIS 1)

A "bookmark" can be used to limit the movement range of the blind/shutter.
Enter the group address of the switch for moving to the minimum or maximum.
The value 0 moves to the minimum position and the value 1 to the maximum position.

Position (EIS 6)

Insert the group address for position control.

Position Feedback (EIS 6)

Insert Group address for position feedback.

Wind Alarm (EIS 1)

Insert group address of the wind alarm (1: on, 0: off).

Init Drive (EIS 1)

Enter the group address to start a reference run (run starts when a "1" is received). A reference run is used to ensure that the Smart Home App determines its position correctly.

NOTE ON INIT DRIVE AND POSITION:

The Smart Home App initializes the blind position based on the current value of the position feedback address.

An init drive is only executed if no previous value exists (e.g. when you start a new instance for the first time).

To start an init drive manually, trigger the init drive by sending a "1" to the configured KNX group address.

An init drive is necessary if the calculated position returned by the app does not match the actual position of your blinds.

6 ATTACHMENT

6.1 DATAPOINT 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 Value 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
PriorityControl	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)