



REAL SMART HOME

REAL SMART HOME GmbH

**APPMODULE**

# **DoorBird Control**

## Smart Home App Documentation

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# TABLE OF CONTENTS

<b>1</b>	<b>Introduction.....</b>	<b>4</b>
	Important information on the operating instructions .....	4
<b>2</b>	<b>DoorBird Control Functional overview.....</b>	<b>5</b>
<b>3</b>	<b>The innovative, modular Smart Home App concept for the building automation .....</b>	<b>6</b>
3.1	Information about the APPMODULE.....	6
<b>4</b>	<b>Smart Home App installation / update .....</b>	<b>7</b>
<b>5</b>	<b>Smart Home App Settings.....</b>	<b>8</b>
5.1	DoorBird Control.....	8
5.2	Connection Parameters .....	8
5.3	Group Addresses (all settings optional).....	9
5.4	Relays .....	10
<b>6</b>	<b>IP ADDRESS of the DoorBird .....</b>	<b>11</b>
<b>7</b>	<b>DoorBird Control - Instances.....</b>	<b>12</b>
<b>8</b>	<b>Attachment .....</b>	<b>13</b>
8.1	Datapoint Types.....	13

# 1 INTRODUCTION

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Thank you for your trust, and the purchase of the **DoorBird Control** -Smart Home App for the BAB **APPMODULE**. Use **DoorBird Control** to integrate your DoorBird in the KNX bus system. This documentation will help you get started with the app and aims to improve your setup experience.

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

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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 This entails the possibility that parts of this documentation might be out-of-date.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](http://www.bab-appmarket.de)

This Smart Home App is an independent product, with no legal ties to Bird Home Automation. Neither **BAB** APPMARKET GmbH nor the developer of this Smart Home App take any claim in the trademarks owned by Bird Home Automation.

## 2 DOORBIRD CONTROL FUNCTIONAL OVERVIEW

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With this Smart Home App, you can easily integrate DoorBird door intercom systems into your KNX® or EnOcean® building automation system.

DoorBird door stations are easy to install and can be used with the existing infrastructure. Just as easily integrate them into your existing building control system based on KNX or EnOcean. Use the functions of DoorBird in scenes, visualizations and automation.

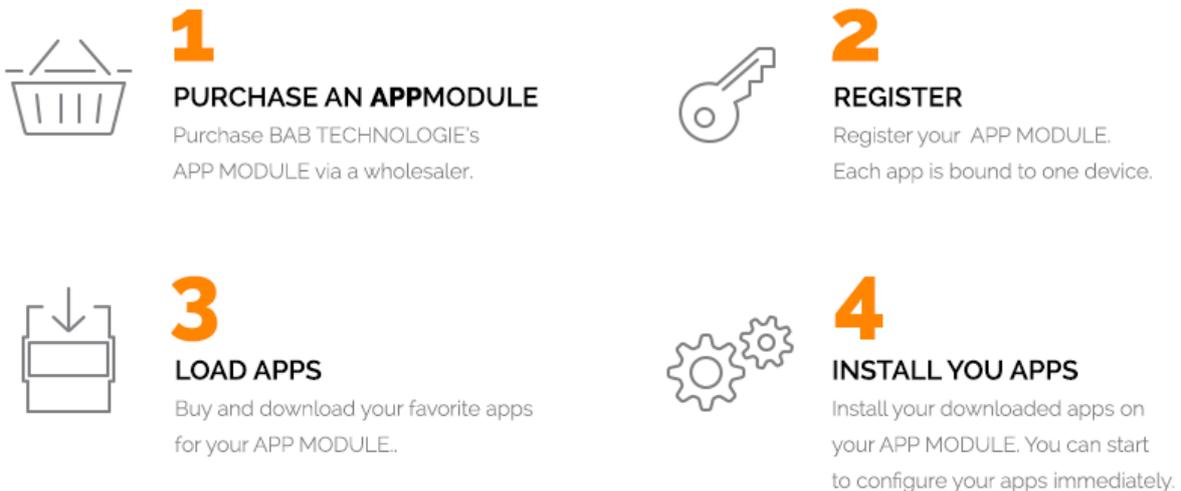
### Highlights:

- Video streaming integration
- Integration of the motion detector
- Integration of the integrated infrared lighting
- Additional internal image memory for 100 images with date and time stamp
- Interface to display images

## 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](#)

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](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

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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 » **DoorBird Control** « and click "OK".

The Smart Home App » **DoorBird Control** « must first be downloaded from the **BAB** APPMARKET ([www.bab-appmarket.de](http://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

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Use **DoorBird Control** to integrate your DoorBird into the KNX bus system.

### 5.1 DOORBIRD CONTROL

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As soon as the App is installed, you can create so called "Instance". In order to create an instance, click on the following symbol "Create Instance".

Please note that a maximum of one instance can be created. The Pro variant, on the other hand, allows 5 instances.

#### Instance Name:

Choose a name for this new instance.

#### Comment:

Insert a description what this instance does.

### 5.2 CONNECTION PARAMETERS

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#### IPv4 Address of the DoorBird:

To establish a connection with the DoorBird specifying the IPv4 address is mandatory. You can get them via a service from the manufacturer, please visit:

<https://www.doorbird.com/checkonline>.

It is necessary to unlock the "API operator" permission for your DoorBird user (in the mobile DoorBird app at Administration > User > Permissions) in order to enable status addresses and image capturing features.

**Note: It is important that the DoorBird always have the IP address specified in this input. How to assign a static IP address to your DoorBird is described in chapter 6 using the example of a FRITZ!Box router.**

#### Username:

A username and password is required to authenticate to DoorBird. You will find these - as far as not yet manually changed - in the Quick start manual (see 'Add device to App') with your DoorBird documents.

Note that you enter the data for the user only and not as the administrator.

**IMPORTANT: For this user, you must unlock the "API operator" permission in the mobile DoorBird app at Administrator > User > Permissions.**

#### Password:

A username and password is required to authenticate to DoorBird. You will find these - as far as not yet manually changed - in the Quick start manual (see 'Add device to App') with your DoorBird documents.

### **Overwrite Existing Schedules for HTTP Notifications**

Choose this option if already existing schedules for HTTP notifications in your DoorBird device may be overwritten by this app instance.

The app instance must add schedules to your DoorBird device in order to receive event callbacks over HTTP which can then be relayed to KNX.

As it is impossible to set more than one schedule for HTTP callbacks, exiting HTTP schedules in your DoorBird device need be overwritten.

Note: After the initial installation of the DoorBird Station it is recommended to deactivate this option, otherwise changes to group addresses or other settings by saving of the instance will overwrite these schedules again and again.

## **5.3 GROUP ADDRESSES (ALL SETTINGS OPTIONAL)**

### **Activate infrared mode (EIS1):**

Turns the infrared LEDs on for an improved night vision for 3 minutes.

### **Doorbell (EIS1):**

Group address to which a '1' is sent when the button / bell is pressed.

### **Delay doorbell [milliseconds]:**

Time between sending a '1' (the doorbell has been pushed), and a '0' (status is reset).

### **Motion sensor (EIS1):**

Group address to which a '1' is sent when the motion detector is activating.

### **En-/Disable motion detection (EIS1):**

Via this group address the forwarding of the motion detection can be deactivated ('0') or activated ('1').

### **Delay motion sensor [milliseconds]:**

Time between sending a '1' (movement was detected) and a '0' (status is reset).

### **Take Picture on Bell:**

If this option is enabled, when bell is ringing an image is captured and stored locally with a time stamp. The stored images are available via a web interface and can thus be directly integrated into a visualization. The address of the web interface can be found in the detailed app view (arrow next to a started instance).

### **Take Picture on Motion:**

If this option is enabled, when motion is detected, an image is captured and stored locally with a time stamp. The stored images are available via a web interface and can thus be directly integrated into a visualization. The address of the web interface can be found in the detailed app view (arrow next to a started instance).

### **Take Picture via KNX (EIS1):**

This group address can be used to take a picture that is stored locally with a time stamp. The stored images are available via a web interface and can thus be directly integrated into visualization. The address of the web interface can be found in the detailed app view (arrow next to a started instance).

## **5.4 RELAYS**

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### **Configured Relays**

Here you can configure up to 10 relays for your DoorBird. Start by clicking on "Add".

#### **Name of the Relay**

Enter the name for this relay.

#### **DoorBird Relays**

Here you will find all available relays from your DoorBird. Choose a relay to continue.

#### **Activate Relay (EIS 1)**

Activates the chosen relay for about 5 seconds.

#### **Feedback address for the door opener for the relay (EIS 1)**

If the chosen relay is activated, a telegram with value "1" is sent on this address.

Note: At the window of the added and configured relay, these are displayed with the "name" you assigned:"internal-DoorBird-name". The "internal-doorbird-name" is the name communicated inside the system.

## 6 IP ADDRESS OF THE DOORBIRD

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The DoorBird comes preconfigured with DHCP enabled. To obtain the current IP address of the DoorBird, please consult the DHCP client list of your router or DHCP server.

Visit the web interface of your router, e.g. the web interface of a FRITZ!Box 7390. To do so, type either the IP address of your FRITZ!Box (factory default 192.168.178.1) or FRITZ!Box into your browser's address bar. Log into your FRITZ!Box using your credentials. To assign a static IP address to the DoorBird, follow these steps:

1. Click »Home Network« in the user interface.
2. Click »Home Network Overview« in the Home Network menu.
3. Click on the »Network Connections« tab.
4. Click the pencil button next to the device.
5. Enable the option »Always assign this network device the same IPv4 address«.
6. If you want to assign a specific IP address to the DoorBird, enter that IP address in the field „IPv4 address“.

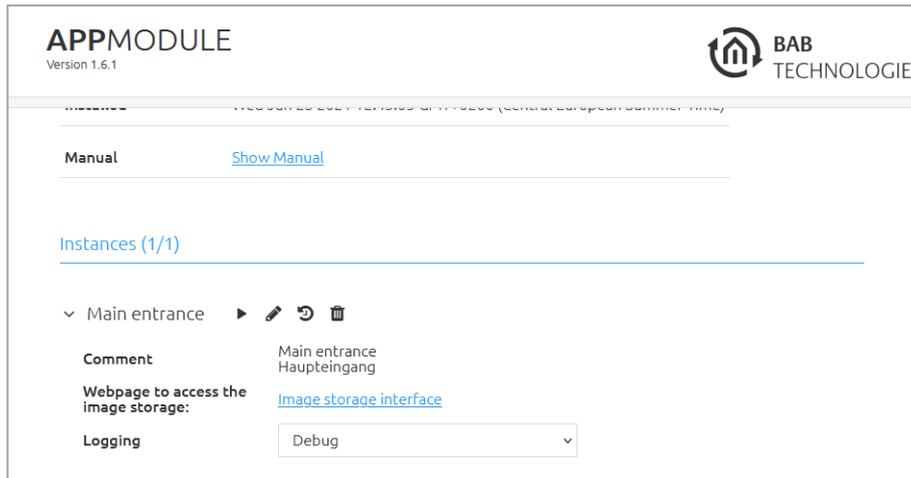
**Please make sure that the custom IP address you chose is not used by any other device in the network.**

## 7

## DOORBIRD CONTROL - INSTANCES

Via the main menu of your DoorBird instances you can use further functions:

- ▶ Start or stop instances
- ✎ Edit instance
- ↺ View or export Log files
- 🗑 Delete Instance



Furthermore, you will find here the link to the image memory, which can be opened on the one hand or integrated as a link into another application.

Log level: A filter for the log data can be activated via the selection menu.

## 8 ATTACHMENT

### 8.1 DATAPPOINT 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)