



REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

Nuki Control

Smart Home App Documentation

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1 INTRODUCTION

Thank you for your trust, and the purchase of the **Nuki Control** Smart Home App for the BAB **APP**MODULE. With the **Nuki Control** Smart Home App you get a simple integration of the Nuki Smart Lock devices into the KNX® world.

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 This entails the possibility that parts of this documentation might be out-of-date.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

This Smart Home App is an independent product, with no legal ties to Nuki Home Solutions GmbH. Neither **BAB** APP MARKET GmbH nor the developer are in possession of the above-mentioned trademark.

2

NUKI CONTROL FUNCTIONAL OVERVIEW

Connect your Nuki Smart Lock to the KNX and EnOcean world and control the lock's convenient functions via your existing visualisation or any push-button sensor! With »Nuki Control« you can operate and visualize the Smart Lock with any KNX or EnOcean components, such as sensors and central visualizations. Use information such as the locking status in logic or integrate locking and unlocking into scenes. Please note that this app only communicates with the Nuki Bridge.

Highlights:

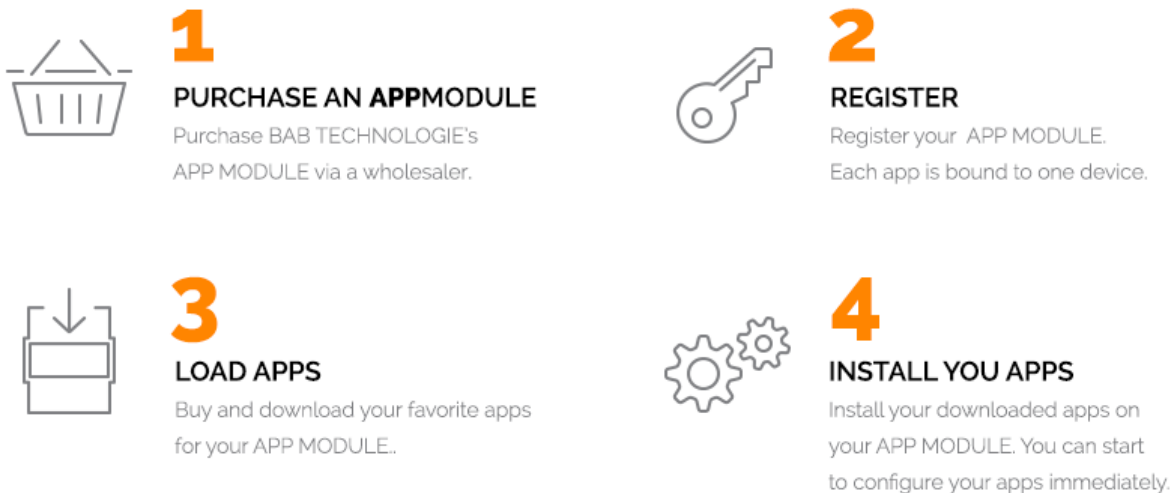
- Full integration of a Nuki Smart Lock in KNX and EnOcean
- Easy integration
- Use status information in visualizations and scenes

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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-tec.de)

Smart Home App developer [REAL SMART HOME GmbH](http://www.bab-tec.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 » **Nuki Control** « and click "OK".

The Smart Home App » **Nuki Control** « 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

Connect your Nuki Smart Lock to the KNX and EnOcean world and control the lock's convenient functions via your existing visualisation or any push-button sensor! With »Nuki Control« you can operate and visualize the Smart Lock with any KNX or EnOcean components, such as sensors and central visualizations. Use information such as the locking status in logic, or integrate locking and unlocking into scenes. Please note that this app only communicates with the Nuki Bridge.

5.1 NUKI CONTROL

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.

Instance Name:

Choose a name for this new instance.

Comment:

Insert a description what this instance does.

5.2 CONNECTION PARAMETERS

Nuki Bridge

The IP address and API port of your Nuki Bridges will be pre-filled automatically as long as they are reachable in your network and connected to the Internet (including functional DNS). In case this field is empty, you can specify manually which IP and API pro your Nuki Bridge has. In this case, the authentication status check will start once you click on "Check authentication". In order to make this App function properly, we recommend not using the Nuki Software Bridge to communicate with Nuki Smart Locks.

Nuki Smart Lock

Choose the Nuki Smart Lock to be controlled by this instance.

Connection Status

Insert the group address of the connection status indicator. The following values and their corresponding statuses are as follows:

- 0: No connection errors.
- 1: The selected smart lock has not been added or has been removed.
- 2: Bridge authentication pending.
- 3: The bridge could not be found.

5.3 SMART LOCK CONTROL ADDRESSES (ALL SETTINGS OPTIONAL)

Lock Action

Insert the group address for lock action. Possible values and their corresponding lock actions are as follows:

- 1: unlock
- 2: lock
- 3: unlatch
- 4: Lock'n'Go
- 5: Lock'n'Go with unlatch

Unlock (EIS 1)

Insert the group address for the unlock command. Send 1 to unlock (default).

Swap Unlock Value

Check this box if you want to swap the value which triggers the unlock control and also indicates the unlock status (send 0 to unlock).

Lock (EIS 1)

Insert the group address for the lock command. Send 1 to lock (default).

Swap Lock Value

Check this box if you want to swap the value which triggers the lock control and also indicates the lock status (send 0 to lock).

Lock Status

Insert the group address for the lock status. Possible values and their corresponding statuses are as follows:

- 0: uncalibrated
- 1: locked
- 2: unlocking
- 3: unlocked
- 4: locking
- 5: unlatched
- 6: unlocked (Lock'n'Go)
- 7: unlatching
- 254: motor blocked
- 255: undefined

Unlocked Status (EIS 1)

Insert the group address for the unlocked status. A 1 indicates that the device is unlocked (default).

Unlocked Status (Lock 'n' Go) (EIS 1)

Insert the group address for the unlocked status (Lock 'n' Go). A 1 indicates that the device is unlocked (default).

Locked Status (EIS 1)

Insert the group address for the locked status. A 1 indicates that the device is locked (default).

Doorsensor Status (EIS 14 0–255)

Insert the group address for the Doorsensor status. Possible values and their corresponding statuses are as follows:

- 1: deactivated
- 2: door closed
- 3: door opened
- 4: door state unknown
- 5: calibrating

Battery Status (EIS 1)

Insert the group address for the battery status (0: battery level normal, 1: battery level critical).

Name Display (EIS 15 14 Byte Text)

Insert the group address of the Smart Lock name display.

5.4 TEXT DISPLAY FOR LOCK STATUS (ALL SETTINGS OPTIONAL)

Lock Status Name (EIS 15 14 Byte Text)

Insert the group address for the lock status name. Normally, the status name provided by the Nuki Smart Lock will be sent to this address as a telegram. However, if you want user-friendly status names to be sent instead, you can define your own in the settings below.

Text for Lock Status »X« (and following items)

User-friendly text for lock status »X«. The text entered here will be sent to the group address for »Lock Status Name« whenever the Nuki Smart Lock reports this status.

5.5 TEXT DISPLAY FOR DOORSENSOR STATUS (ALL SETTINGS OPTIONAL)

Doorsensor Status Name (EIS 15 14 Byte Text)

Insert the group address for the doorsensor status name. Normally, the status name provided by the Nuki Smart Lock will be sent to this address as a telegram. However, if you want user-friendly status names to be sent instead, you can define your own in the settings below.

Text for Doorsensor Status »X« (and following items)

User-friendly text for doorsensor status »X«. The text entered here will be sent to the group address for »Doorsensor Status Name« whenever the Nuki Smart Lock reports this status.

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)