REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

tedee KNX Connect

Smart Home App Documentation

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1 INTRODUCTION

Thank you for your trust, and the purchase of the **tedee KNX Connect** and **tedee KNX Connect Pro** Smart Home App for the BAB **APP**MODULE.
The intelligent door locks from tedee connect you to KNX in a flash with the »tedee KNX Connect» smart home app.

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 This entails the possibility that parts of this documentation might be out-of-date.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 tedee. Neither **BAB** APPMARKET GmbH nor the developer of this Smart Home App take any claim in the trademarks owned by tedee .

2 TEDEE KNX CONNECT FUNCTIONAL OVERVIEW

Smart Home starts at the front door: tedee's intelligent door locks connect you lightning-fast to KNX with «tedee KNX Connect». The design-oriented and powerful motor lock, with a diameter of just 45 millimeters, is made of aluminum both inside and out, enabling extremely quiet operation.

Control the door lock in scenes with our Smart Home App and use the status information in other intelligent applications. An integrated module for scenes with IoT and KNX components, which can be triggered based on the operation of the Smart Lock, completes the functionality portfolio.

Function highlights (*Standardversion*):

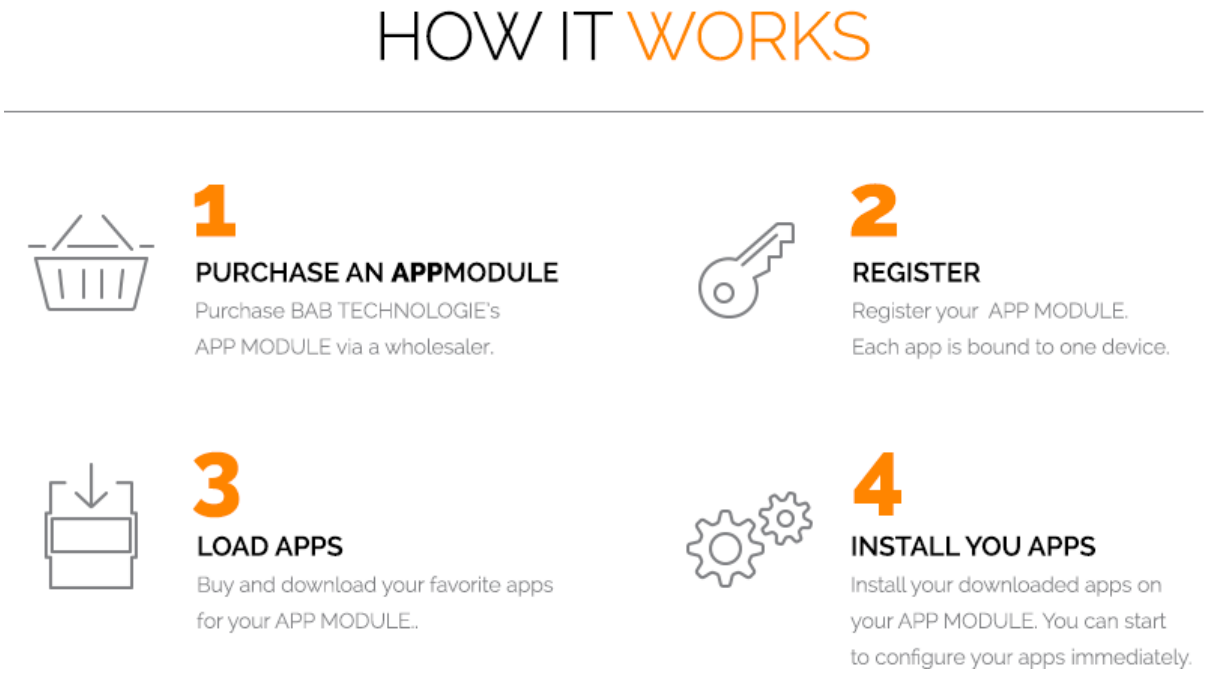
- Supports tedee PRO and tedee GO door locks
- Up to 5 locks can be integrated
- Opening and closing with delay option possible
- Detailed status information in KNX

Function highlights (*Proversion*):

- Supports tedee PRO and tedee GO door locks
- Up to 5 locks can be integrated
- Opening and closing with delay option possible
- Detailed status information in KNX
- Integrated scene block for 10 KNX or IoT components per lock

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 » **tedee KNX Connect** « and click "OK".

The Smart Home App » **tedee KNX Connect** « 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

To configure the Smart Home app, it is assumed that the tedee devices have been set up and are paired with the tedee app.

5.1 INSTANCE

Note: The browser session ends automatically after 60 minutes of inactivity. Any unsaved changes will be lost.

As soon as the Smart Home 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:

Enter a description of the function or helpful information for this instance here.

5.2 GENERAL SETTINGS

IP address

Enter the IP address of the tedee bridge here.

Port

Enter the configured port of the tedee bridge here (default is 80).

Token

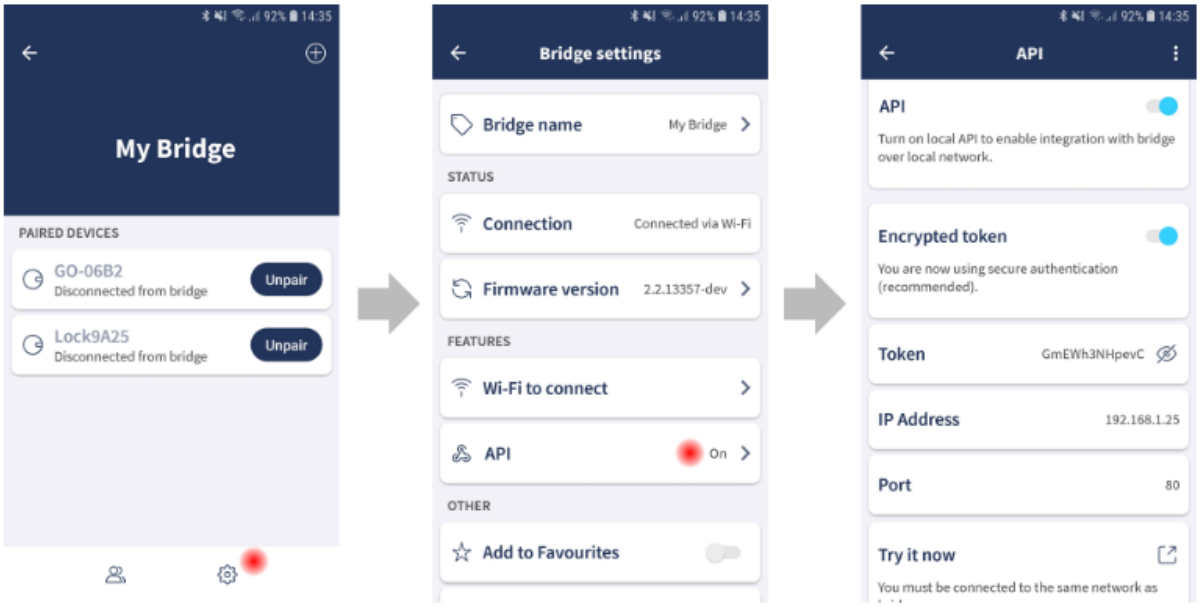
To authorize the Smart Home App to access the tedee bridge, the valid token must be entered here. The token is stored in the tedee bridge (see chapter 'API Token').

Update Locks

Click this button to check the parameters and load the information and the registered tedee devices from the tedee Bridge.

5.2.1 API TOKEN

To generate a token for the smart home app, first activate the API function in the tedee app under the tedee bridge settings.
A token is automatically generated here and entered in the corresponding field in the instance configuration (see figure below).



5.3 INFORMATION OF TEDEE BRIDGE

Status information of the tedee bridge.

Name of the tedee Bridge
The name of the tedee Bridge is displayed here.

Serial number
The serial number of the tedee Bridge is displayed here.

Connection status of the bridge (EIS 1)
Enter the group address for the connection status of the app with the tedee bridge. The data point type is 1bit and the following telegram values are used:

- 0 - tedee bridge not connected
- 1 - tedee bridge connected

5.4 SMART LOCKS

Smart Locks
Enter the group address for the connection status of the app with the tedee bridge. The data point type is 1bit and the following telegram values are used:
The functions Add, Copy, Edit and Delete are available for editing the Smart Lock.
Here are the configuration parameters of the Smart Lock:

SMART LOCKS

Select Lock: Select the lock to be configured from a dropdown list. Only paired devices are listed.

Type: Display the type of the selected lock

Serial number: Display the serial number of the selected lock

STATUS INFORMATION

Status information of the lock

Connection status (EIS 1): Enter the group address for the connection status of the Smart Lock with the tedee bridge.
The data point type is 1bit and the following telegram values are used:

- 0 – Lock not connected with tedee bridge
- 1 – Lock connected with tedee bridge

Charging status (EIS 1): Enter the group address to display the charge status of the Smart Lock.
The data point type is 1bit and the following telegram values are used:

- 0 – Charging not active
- 1 – Charging active. tedee Smart Lock is charging

Battery status (EIS 6 0-100%): This group address outputs the current battery level of the Smart Lock. The current level is displayed in percent.
This value can be displayed on a visualization or compared with a custom threshold to charge the battery in time.
The data point type is 1byte and the following telegram value are used:

- 0 – 100 Battery level in percent

Current status of the lock: Enter the group address to display the current state of the lock.

- 0 – Lock not calibrated
- 1 – Lock is calibrated
- 2 – Lock is unlocked
- 3 – Lock is partially unlocked
- 4 – Lock is being unlocked
- 5 – Lock is being locked
- 6 – Lock is locked
- 7 – Latch is retracted
- 8 – Latch is being retracted
- 9 – unknown

Lock Jammed (EIS 1): This group address reports whether the Smart Lock is jammed or not. The data point type is 1bit and the following telegram values are used:

- 0 – not jammed
- 1 –jammed

CONTROL

Control of the lock

Lock (EIS 1)
Enter the group address to lock the Smart Lock. The command is triggered with the telegram value 1 (TRUE).

Locking delay
Select the value of the locking delay.
- No delay
- 30; 60 or 90 seconds

Unlocking (EIS 1)
Enter the group address to unlock the lock. The command is triggered with the telegram value 1 (TRUE).

Unlock delay
Select the value of the unlocking delay:
- No delay
- 30; 60 or 90 seconds

Retract Latch (EIS 1)
Enter the group address to retract the latch of the Smart Lock. The command is triggered with the telegram value 1 (TRUE).

Latch Retraction Delay
Select the value of the latch retraction delay:
- No delay
- 30; 60 or 90 seconds

5.5 CONFIGURE SMART HOME SCENE

Up to 5 Smart Home scenes can be stored for each Smart Lock. A Smart Home scene consists of actions that are triggered when unlocking or locking.
The actions can be activated and deactivated as required via a separate release.

To integrate your own actions or other scenes when unlocking and locking, the feedback available here can be used for both processes.

CONFIGURE SMART HOME SCENE (NUR PROVARIANTE)

Configure your smart home scenes for the tedee Locks here.
You can add, copy, edit and delete your smart home scenes,

Select lock: Select the Smart Lock for this Smart Home scene from the dropdown list.

Name of the lock: The name of the selected Smart Lock is displayed.

Type: The type of Smart Lock selected is displayed.

Serial number: The serial number of the selected Smart Lock.

Activate upon unlocking (EIS 1) With this group address, you can decide whether the scenario should be executed when unlocking.

Feedback of the start of the scene (EIS 1): A telegram is sent to this group address when this action is triggered upon unlocking.

Actions when opening the lock
Actions when unlocking the lock. In this list, actions can be created and edited using the corresponding "Add", "Copy", "Edit" and "Delete" buttons.

Name of the Function: Enter a name for this function.

Control Address: Enter the group address that will be executed during the action.

Select Data Type: Select the data type for the telegram value.

Value to be sent: Enter the telegram value here which is sent to the control address during the action.

Sending Delay (1-3600): Enter the value (in seconds) with which the action is delayed.

Enable Function: The action can be temporarily activated or deactivated using this checkbox.

Activate upon locking (EIS 1): With this group address, you can decide whether the scenario should be executed when locking.

Feedback of the start of the scene (EIS 1): A telegram is sent to this group address when this action is triggered upon locking.

Actions when locking the lock
Adding, copying, editing and deleting actions when closing the lock. The following configuration includes the "Close" action:

Name of the Function: Enter a name for this function.

Control Address: Enter the group address that will be used for this action.

Select Data Type: Select the data type for the telegram value.

Value to be sent: Enter the telegram value here that will be sent during the action.

Sending Delay (1-3600): Enter the value (in seconds) of the delay with which the action will be executed.

Activate function: The action can be temporarily activated or deactivated via this checkbox.

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)