



REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

Neato Connect

Smart Home App Documentation

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1 INTRODUCTION

Thank you for your trust, and the purchase of the **Neato Connect**-Smart Home App for the BAB **APP**MODULE. With **Neato Connect**-Smart Home App you can easily control your robot vacuum cleaner with any KNX® component.

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 This entails the possibility that parts of this documentation might be out-of-date.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

2 NEATO CONNECT FUNCTIONAL OVERVIEW

Smart home. Clean home. Easily control your robotic vacuum cleaner with any KNX component and let Neato do the work automatically when you leave the house. "**Neato Connect**" works with all devices of the Connected series.

HIGHLIGHTS

- Neato zones selectable via KNX.
- Activate schedule via KNX.
- Charging time, battery status and much more can be transferred to KNX.
- Up to 2 app instances

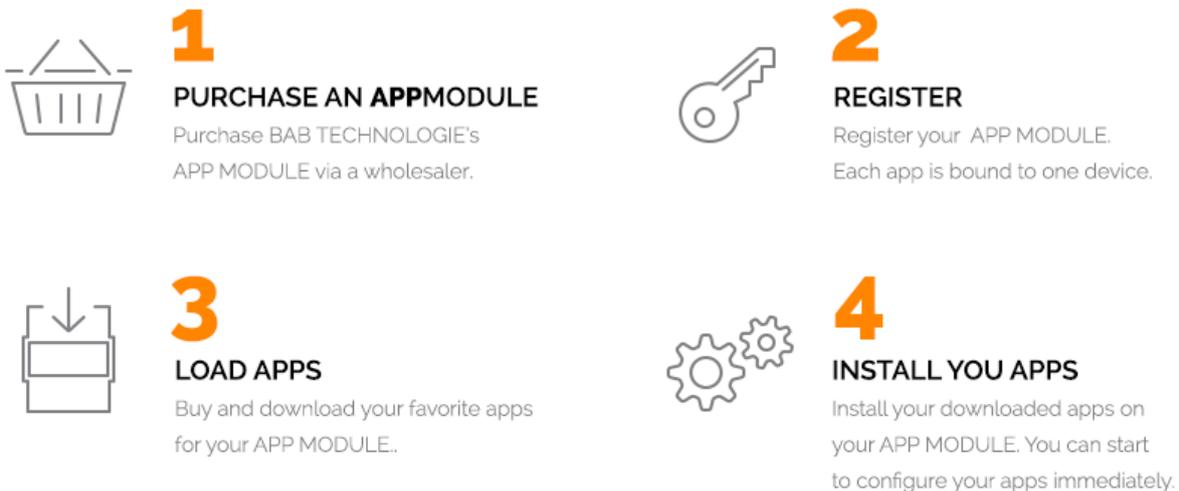
Supports:

- Start-pause-stop control of the robot vacuum cleaner.
- Reset the robot in the dock charging station.
- Selection of cleaning profiles
- Selection of navigation profiles
- Processing of defined time profiles
- Use of the robot vacuum cleaner in different, programmed zones.
- Status feedback from the robot, including the state of charge and battery charging time.

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 » **Neato Connect** « and click "OK".

The Smart Home App » **Neato 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 configure the Smart Home App please use Google Chrome.

5 SMART HOME APP SETTINGS

With the **Neato Connect**-Smart Home App you can easily control your robot vacuum cleaner with any KNX® component. In order to be able to control devices of the »Connected« series with KNX®, you have to create a new instance for each device.

5.1 NEATO CONNECT

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.

Request an access-Token:

Click the field to generate a token. Follow the instructions that appear. The link can also be used by entering it into a browser. The registration takes place at NEATO, where you will receive the TOKEN, which must be entered in the TOKEN field.

O-Auth Access-Code

Here you have to enter the code that you received after authentication by Neato.

Validate Token

To establish the connection to your device, validate the token by pressing the button.

5.2 NETWORK-SETTINGS

Polling repetition (in seconds)

Polling of the robot status, which is started every X seconds. The default value is 10. Please note that a maximum of 2 instances can be created.

Robot selection

Select your robot here. If only one robot is detected it is automatically added in the field.

5.3 NAVIGATION-SETTINGS

Start / Stop robot (EIS 1)

Enter a KNX address that sends start or stop command to robot (8=stop/ 1= start).

Pause / Resume robot (EIS 1)

Enter a KNX address that sends pause or resume command to robot (0=resume/ 1=pause).

Robot activity (EIS 14 0-255)

Enter a group address that shows if the robot is active, inactive or paused:

- 1= idle
- 2= active
- 3= paused

Dock (EIS 1)

Enter a KNX address to send robot to clock.

Docked (EIS 1)

Enter a group address to display if robot is docked (0= no/ 1= yes).

Block command "Pause / Resume" and "Dock" (in seconds)

Blocks the acceptance of new commands for the set time (in seconds). This is necessary because the robot is ready to accept these commands only after a certain time.

Cleaning Profile (EIS 1)

Enter a group address that sets cleaning profile (0= ECO/ 1= TURBO).

Status Cleaning Profile (EIS 1)

Enter a group address to display state of cleaning profile (0= ECO/ 1= TURBO).

Navigation Profile (EIS 14 0-255)

Enter a group address that sets navigation profile (1= Normal/ 2= Extra Care/ 3= Deep).

Status Navigation Profile (EIS 14 0-255)

Enter a group address to display state of navigation profile (1= Norma/ 2= Extra Care/ 3= Deep).

5.4 ROBOT-SETTINGS

Timetable (EIS 1)

Enter a group address to receive an integer that is assigned activates (1) / deactivates (0) timetable.

State of timetable (EIS 1)

Enter a group address to display the current state of timetable (inactive= 0 / active= 1).

Zone Trigger

Enter a group address to receive an integer that is enabling / disabling selected zone.

Zones

With this function you can assign zones as integer numbers. Send this number to a special group address and the device will process the zone next.

When activated by adding, copying and editing, another window opens.

ID

Enter an integer as identifier of zone.

Name of Zone

Name of zone which is set in mobile app.

Cleaning Profile

State of cleaning profile (0= ECO/ 1= TURBO).

Navigation Profile

Selection and sets navigation profile (1= Normal/ 2= Extra Care/ 3= Deep).

5.5 STATE OF ROBOT

Battery State (EIS 6 0–100%)

Enter the group address for state of charge.

Charge Time (EIS 9 4 Byte FP)

Enter the group address for information about duration till robot is fully charged.

Save

Press the button to save and activate the settings.

Save and Close

Press the button to save, activate and exit the settings in one step.

6 ATTACHMENT

6.1 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)