



REAL SMART HOME

REAL SMART HOME GmbH

**APPMODULE**

**NEATO Robotics**

Smarthome App  
Documentation

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# 1 INTRODUCTION

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Thank you for your trust, and the purchase of the NEATO Robotics-app for the BAB **APP**MODULE. With NEATO Robotics -app you can easily control your robot vacuum cleaner with any KNX® component.

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

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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 This entails the possibility that parts of this documentation might be out-of-date.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 app is an independent product, with no legal ties to Neato Robotics, Inc.. Neither **BAB APP MARKET** GmbH nor the developer of this app take any claim in the trademarks owned by Neato Robotics, Inc.

## 2 FUNCTIONAL OVERVIEW

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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 Control" 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 APP-CONCEPT FOR THE BUILDING AUTOMATION

The innovative, modular Smarthome App concept for building automation. The **APPMODULE** brings the innovative, modular Smarthome 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 Smarthome Apps from the dedicated **BAB APPMARKET**, the **APPMODULE** becomes a tailor-made integration unit for your building automation.

### HOW IT WORKS

**1****PURCHASE AN APPMODULE**

Purchase BAB TECHNOLOGIE's APP MODULE via a wholesaler.

**2****REGISTER**

Register your APP MODULE.  
Each app is bound to one device.

**3****LOAD APPS**

Buy and download your favorite apps for your APP MODULE..

**4****INSTALL YOU APPS**

Install your downloaded apps on your APP MODULE. You can start to configure your apps immediately.

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

Distribution of all Smarthome Apps for the **APPMODULE** [BAB APP MARKET GmbH](#)

Smarthome 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 SMARTHOME APP INSTALLATION / UPDATE

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Please proceed as follows to install a Smarthome 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 Smarthome Apps are listed. The list will be empty if no Smarthome Apps have been installed. Click "Install App" in order to install a new Smarthome App.
5. Now click on "Select App"; a file selector window will appear. Choose the Smarthome App »**NEATO Robotics**« and click "OK".

The Smarthome App » **NEATO Robotics**« 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 Smarthome App.

To update a Smarthome App manually you have to proceed as follows

1. To update an already installed Smarthome App, click on the App icon in the "App Manager".
2. The detail view of the Smarthome App appears. Click on "Update App" to select the Smarthome 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 Smarthome App has been updated. Your instance configurations will remain unchanged.

The Smarthome App can also be updated directly in the web interface. Without having to download the Smarthome App from the **BAB** APPMARKET first.

In the "App Manager" available Smarthome App updates are reported

### **Information**

To configure the Smarthome App please use Google Chrome.

## 5 APP SETTINGS

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With the NEATO Robotics -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 ROBOTICS

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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.

### 5.2 NETWORK-SETTINGS

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**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

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### 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).

### 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

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### 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

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### 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 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	Hhh: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)