REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

Digital Strom KNX Connect

Smart Home App Documentation

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1 INTRODUCTION

Thank you for your trust, and the purchase of the **Digital Strom KNX Connect** -Smart Home App for the BAB **APP**MODULE. With «**Digital Strom KNX Connect**», you can seamlessly integrate Digital Strom components with KNX and IoT systems, providing you with unparalleled convenience and control.

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 This entails the possibility that parts of this documentation might be out-of-date.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

2 DIGITAL STROM KNX CONNECT FUNCTIONAL OVERVIEW

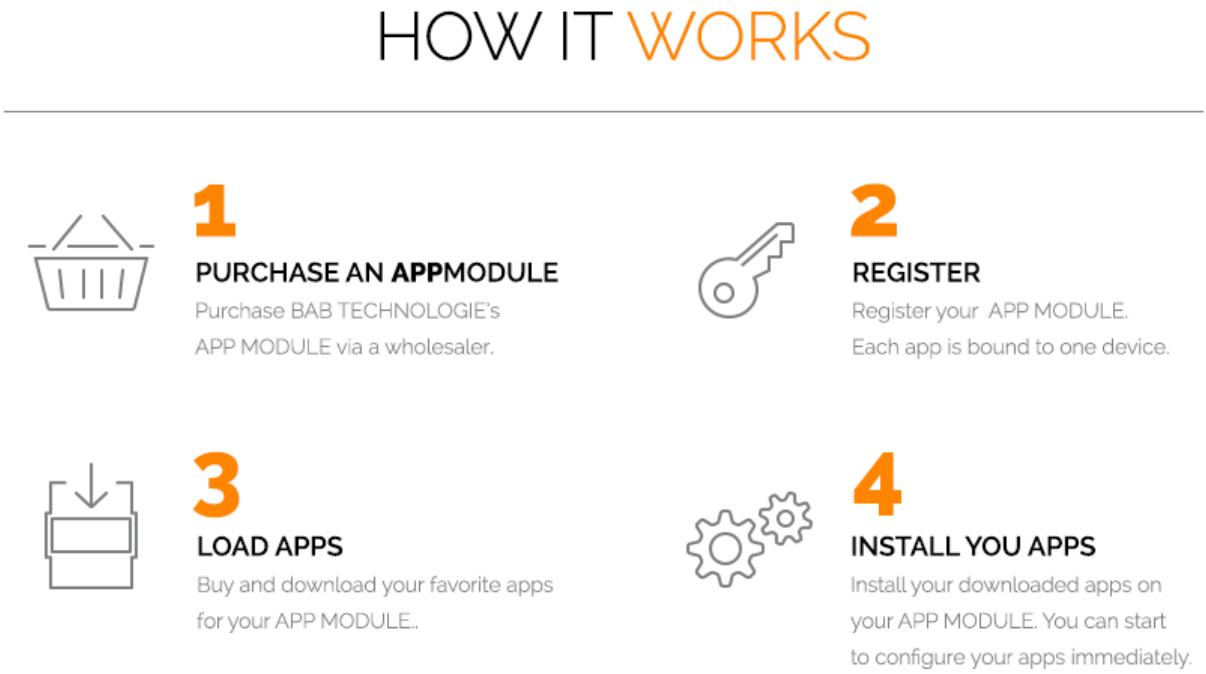
Digital Strom utilizes your home's existing electrical network to transmit data and commands. This eliminates the need for complex installation processes or additional cables. Whether it's lighting, shading, climate control, or power monitoring, the Digital Strom system offers easily installable components for all areas of your Smart Home.
By leveraging the existing electrical wiring, these components are also perfect for expanding existing KNX systems.
With our Smart Home app « **Digital Strom KNX Connect** », you can seamlessly integrate Digital Strom components with KNX and IoT systems, providing you with unparalleled convenience and control.

2.1 HIGHLIGHTS

- KNX integration of up to 25 Digital Strom components from all areas
- KNX integration of up to 25 "custom states" for triggering actions
- Integration of up to 25 Digital Strom meters (dSM) for consumption measurement
- Adjustable intervals for energy measurements
- Compatibility with all Smart Home apps for the APP MODULE
- Perfectly suited for expanding existing KNX installations
- Thanks to Powerline technology, no radio waves
- Local data transmission without the cloud

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 » **Digital Strom KNX Connect** « and click "OK".

The Smart Home App » **Digital Strom 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

With «**Digital Strom KNX Connect**», you can seamlessly integrate Digital Strom components with KNX and IoT systems, providing you with unparalleled convenience and control.

5.1 DIGITAL STROM KNX CONNECT

Note:
After inactivity of 60 minutes the browser session is automatically closed. 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:

Insert a description what this instance does.

5.2 CONNECTION

Individual Digital Strom server address

If your Digital Strom server is not configured with the name DSS, or if the APPMODULE and Digital Strom server are in different subnets, activate this function to enter an alternative address.

Digital Strom server address

Different local domain according to the Digital Strom system settings (e.g. dss2.local) or IP address if the devices are in different subnets.

Status

This shows you the IP address of the Digital Strom Server and whether the connection was authorized.

5.3 INDIVIDUAL DEVICES

Individual devices

Connect up to 25 individual actuators such as universal dimmers, automation terminals, shading or heating terminals.

You can manage your devices that are accessible in the network by adding, copying, editing, deleting. A submenu opens.

Select Function

Choose an available function. According to this function, further configuration fields are opened.

(For the light control)
Brightness (EIS 6 0-100%)

Brightness Status (EIS 6 0-100%)

On/Off Switch (EIS 1)

Status On/Off Switch (EIS 1)

(For blind control)
Blade Angle (EIS 6 0-100%)

Blade Angle Status (EIS 6 0-100%)

Position (EIS 6 0-100%)

Position Status (EIS 6 0-100%)

5.4 USER DEFINED STATES

User Defined States

User Defined States allow you to trigger actions when certain states are reached. For example, when certain consumption values are exceeded, the doorbell rings or sensor values such as a given temperature are reached.
Connect up to 25 custom states here.

You can manage custom states by adding, copying, editing, deleting. A submenu opens.

Select state

Select the one you want to link. The "Set state" option is only available for manually set states.

Set state (EIS 1)

Send a 1 to set the state, a 0 to reset it.

State Status (EIS 1)

Sends a 1 if the state has been reached, a 0 if not. Unknown states are ignored.

State Status (EIS 14 0-255)

Sends a 1 if the state has been reached, a 0 if not. If an unknown condition is reported, a 2 is sent.

5.5 METERING

Metering

The Digital Strom meter must precisely measure your power consumption. Here you can transfer the measured values from up to 25 measuring devices to KNX and IoT systems.

You can manage your measuring devices by adding, copying, editing, deleting. A submenu opens.

Metering

Select Meter

Select the measuring device for the data acquisition.

Send value

Is the group address to which the measured value is transferred.

Data type

Select the data point type for the measured value transmission. Possible data types are:

- EIS 5; 2 bytes floating point
- EIS 9: 4 byte floating point

Minimal Send Interval (in seconds)

The Digital Strom server sends metering values to the app every second. Here you can reduce the sending to the bus. Values will then be sent at most at the specified interval. In addition, they are only sent if the metering value received differs from the last known value.

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)