



REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

WEATHER App Documentation

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1 INTRODUCTION

Thank you for your trust, and the purchase of the **WEATHER** -app for the BAB **APPMODULE**. With the **WEATHER** -app you obtain professional integration of internet weather with comprehensive weather data into building automation. 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

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 This entails the possibility that parts of this documentation might be out-of-date.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

2 WEATHER – FUNCTIONAL OVERVIEW

WEATHER connects your building control with data from OpenWeatherMap (openweathermap.org) in an intelligent manner. The data allows you to integrate the weather forecast into various algorithms. If, for example, a long dry period is forecast, the watering system can react appropriately and available sun protection systems can be brought into position. If a storm is forecast, the necessary protective measures can be taken automatically. OpenWeatherMap offers codes for a wide range of weather definitions – so-called "Weather condition codes". These codes simplify parameterisation of the system and allow for the clear classification of conditions. Of course current weather information can also easily be shown in the visualisation.

2.1 HIGHLIGHTS

- Current weather for a location per instance
- Multi-lingual
- Various measurement systems
- Automatic or manual "Refresh"
- Current temperature
- Weather description in the preferred language
- Atmospheric pressure
- Humidity
- Visibility
- Wind speed
- Cloud cover

2.2 LIMITATIONS OF THE LITE VERSION

- Only information about the current weather.

3 THE INNOVATIVE, MODULAR APP-CONCEPT FOR THE BUILDING AUTOMATION

The innovative, modular app concept for building automation. The **APPMODULE** brings the innovative, modular 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 apps from the dedicated **BAB APP MARKET**, 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 YOUR APPS**

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

Manufacturer of the **APPMODULE**

<http://bab-tec.de/>

Distribution of all apps for the **APPMODULE**

<https://www.bab-appmarket.de/de/>

App developer

<http://www.realsmarthome.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 Extension** – for use in an IP-based KNX installation (KNXnet/IP) or as extension for an **EIBPORT**

4 APP INSTALLATION

You can install and manage apps under the menu items „App Manager“. In order to manage an app or to change functions/instances, just click on the corresponding app.

You can find the functions of each APP on the homepage of **BAB** APP MARKET (<https://www.bab-appmarket.de/>) or from the ToolTips of the corresponding application.

To install an app, please proceed as follows:

1. Open the web interface of your **APPMODULE**

<IP-Address **APPMODULE** >

2. Click on the menu entry „App Manager“, marked here in red.
3. You are now in the menu which lists all the apps that have already been installed. To install another app, click on "Install App", highlighted orange in the picture below.
4. Click on "Select App" and a new window will open. Select the app file and click "OK".
5. The installation was successful as soon as the dialog pictured below appears. Finally, click "OK" and configure the app.

5 APP SETTINGS

WEATHER connects your building control with data from OpenWeatherMap (openweathermap.org) in an intelligent manner. The data allows you to integrate the weather forecast into various algorithms. If, for example, a long dry period is forecast, the watering system can react appropriately and available sun protection systems can be brought into position. If a storm is forecast, the necessary protective measures can be taken automatically. OpenWeatherMap offers codes for a wide range of weather definitions – so-called "Weather condition codes". These codes simplify parameterisation of the system and allow for the clear classification of conditions. Of course current weather information can also easily be shown in the visualisation.

5.1 INSTANCE

As soon as the 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".

5.1.1 MAIN SETTINGS

API Key:

In order to retrieve weather information from openweathermap.org, you must first register on the website and obtain an api key. Registration is free, and the free api access terms are well-suited for the usage of this app. See for <http://openweathermap.org/api> for details.

City:

Insert the name of the city you want to receive weather information about. In case there are several cities with the name, a selection of all cities found will be generated in the dropdown menu right below, with which you are able to select your desired city. These cities can then be distinguished by country ID and/or geographical coordinates.

Language Select:

Select the language you want the information to be displayed in:

- Bulgarian
- English
- French
- German
- Portuguese
- Swedish
- Turkish
- Croatian
- Dutch
- Italian
- Romanian
- Russian
- Spanish
- Ukrainian
- Catalan
- Chinese Traditional
- Chinese Simplified
- Finnish
- Polish

Unit Format Select:

Select the unit format for the display of values such as temperature or wind speed:

- metric
- imperial

Manual Information Update (EIS 1):

Insert the group address of the KNX Device with which to trigger an update of weather information. This Setting is optional.

Automatic Information Update:

Check if you want the weather information to be updated every 30 minutes.

5.1.2 GENERAL DISPLAY ADDRESSES (OPTIONAL)

Country Code Display (EIS 15):

Insert the group address of the display on which the country code will be displayed.

City Display (EIS 15):

Insert the group address of the display on which the city will be displayed.

5.1.3 CURRENT WEATHER ADDRESSES (OPTIONAL)

Temperature Display (EIS 15)

Insert the group address of the display on which the temperature will be displayed.

Temperature Value Output

Insert the group address of the temperature value output.

Temperature Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Weather Description Display (EIS 15)

Insert the group address of the display on which the weather description will be displayed.

Pressure Display (EIS 15)

Insert the group address of the display on which the atmospheric pressure will be displayed.

Pressure Value Output

Insert the group address of the atmospheric pressure value output.

Pressure Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Humidity Display (EIS 15)

Insert the group address of the display on which the humidity will be displayed.

Humidity Value Output (EIS 14)

Insert the group address of the humidity value output.

Visibility Display (EIS 15)

Insert the group address of the display on which the visibility will be displayed.

Wind Speed Display (EIS 15)

Insert the group address of the display on which the wind speed will be displayed.

Wind Speed Value Output

Insert the group address of the wind speed value output.

Wind Speed Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Wind Direction Display (EIS 15)

Insert the group address of the display on which the wind direction will be displayed (in degrees).

Wind Direction Value Output (EIS 10)

Insert the group address of the wind degree value output (0 - 360).

Clouds Display (EIS 15)

Insert the group address of the display on which the amount of clouds will be displayed.

Weather ID (EIS 10)

Insert the group address of the weather ID output.

5.1.4 WEATHER FORECASTS (OPTIONAL)

Forecast List

Up to 50 weather forecasts can be configured and compiled on this list. Click 'Add' for further details concerning configuration parameters of each list component.

Name

Insert the name of the forecast.

Forecast Time

Choose the date (viewed from the present) for which the forecast data will be called.

- Today, 9:00 p.m.
- Day four, 9:00 a.m.
- Day four, 0:00 p.m.
- Day four, 9:00 p.m.
- Tomorrow, 3:00 a.m.
- Day after tomorrow, 0:00 a.m.
- Day after tomorrow, 3:00 a.m.
- Day four, 3:00 p.m.
- Day five, 6:00 p.m.
- Today, 0:00 a.m.
- Today, 3:00 p.m.
- Tomorrow, 0:00 p.m.
- Tomorrow, 9:00 p.m.
- Day after tomorrow, 9:00 a.m.
- Day after tomorrow, 3:00 p.m.
- Day five, 0:00 a.m.
- Day after tomorrow, 6:00 p.m.
- Day four, 0:00 a.m.
- Today, 9:00 a.m.
- Tomorrow, 3:00 p.m.
- Tomorrow, 6:00 p.m.
- Day five, 6:00 a.m.
- Tomorrow, 0:00 a.m.
- Day four, 3:00 a.m.
- Day five, 3:00 a.m.
- Day five, 9:00 p.m.
- Today, 3:00 a.m.
- Tomorrow, 6:00 a.m.
- Tomorrow, 9:00 a.m.
- Day after tomorrow, 6:00 a.m.
- Day after tomorrow, 9:00 p.m.
- Day five, 9:00 a.m.
- Day five, 0:00 p.m.
- Today, 6:00 a.m.
- Today, 0:00 p.m.
- Today, 6:00 p.m.
- Day after tomorrow, 0:00 p.m.
- Day four, 6:00 a.m.
- Day four, 6:00 p.m.
- Day five, 3:00 p.m.

Temperature Display (EIS 15)

Insert the group address of the display on which the temperature will be displayed.

Temperature Value Output

Insert the group address of the temperature value output.

Temperature Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Minimum Temperature Display (EIS 15)

Insert the group address of the display on which the minimum temperature will be displayed.

Minimum Temperature Value Output

Insert the group address of the minimum temperature value output.

Minimum Temperature Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Maximum Temperature Display (EIS 15)

Insert the group address of the display on which the maximum temperature will be displayed.

Maximum Temperature Value Output

Insert the group address of the maximum temperature value output.

Maximum Temperature Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Pressure Display (EIS 15)

Insert the group address of the display on which the atmospheric pressure will be displayed.

Pressure Value Output

Insert the group address of the atmospheric pressure value output.

Pressure Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Sea Level Pressure Display (EIS 15)

Insert the group address of the display on which the atmospheric pressure on sea level will be displayed.

Sea Level Pressure Value Output

Insert the group address of the atmospheric pressure on sea level value output.

Sea Level Pressure Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Ground Level Pressure Display (EIS 15)

Insert the group address of the display on which the atmospheric pressure on ground level will be displayed.

Ground Level Pressure Value Output

Insert the group address of the atmospheric pressure on ground level value output.

Ground Level Pressure Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Humidity Display (EIS 15)

Insert the group address of the display on which the humidity will be displayed.

Humidity Value Output (EIS 14)

Insert the group address of the humidity value output.

Weather Description Display (EIS 15)

Insert the group address of the display on which the weather description will be displayed.

Cloudiness Display (EIS 15)

Insert the group address of the display on which the cloudiness will be displayed.

Cloudiness Value Output (EIS 14)

Insert the group address of the cloudiness value output.

Wind Speed Display (EIS 15)

Insert the group address of the display on which the wind speed will be displayed.

Wind Speed Value Output

Insert the group address of the wind speed value output.

Wind Speed Value Data Type

The data type for this floating point value

- EIS 9: 4 Byte Floating Point
- EIS 5: 2 Byte Floating Point

Wind Direction Display (EIS 15)

Insert the group address of the display on which the wind direction will be displayed (in degrees).

Wind Direction Value Output (EIS 10)

Insert the group address of the wind direction value output (in degrees).

Rain Volume Display (EIS 15)

Insert the group address of the display on which the rain volume for the last three hours will be displayed.

Rain Volume Value Output

Insert the group address of the rain volume (for the last three hours) value output.

Rain Volume Value Data Type

The data type for this floating point value

- EIS 9: 4 Byte Floating Point
- EIS 5: 2 Byte Floating Point

Snow Volume Display (EIS 15)

Insert the group address of the display on which the snow volume for the last three hours will be displayed.

Snow Volume Value Output

Insert the group address of the snow volume (for the last three hours) value output.

Snow Volume Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Weather ID (EIS 10)

Insert the group address of the weather ID output.

5.1.5 DYNAMIC WEATHER FORECAST ADDRESSES (OPTIONAL)

Dynamic Forecast Time Input (EIS 14)

Insert the group address of the forecast time input. Put in the amount of hours from the time the telegram is sent for which the forecast data will be called and then sent as telegrams.

Temperature Display (EIS 15)

Insert the group address of the display on which the temperature will be displayed.

Temperature Value Output

Insert the group address of the temperature value output.

Temperature Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Minimum Temperature Display (EIS 15)

Insert the group address of the display on which the minimum temperature will be displayed.

Minimum Temperature Value Output

Insert the group address of the minimum temperature value output.

Minimum Temperature Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Maximum Temperature Display (EIS 15)

Insert the group address of the display on which the maximum temperature will be displayed.

Maximum Temperature Value Output

Insert the group address of the maximum temperature value output.

Maximum Temperature Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Pressure Display (EIS 15)

Insert the group address of the display on which the atmospheric pressure will be displayed.

Pressure Value Output

Insert the group address of the atmospheric pressure value output.

Pressure Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Sea Level Pressure Display (EIS 15)

Insert the group address of the display on which the atmospheric pressure on sea level will be displayed.

Sea Level Pressure Value Output

Insert the group address of the atmospheric pressure on sea level value output.

Sea Level Pressure Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Ground Level Pressure Display (EIS 15)

Insert the group address of the display on which the atmospheric pressure on ground level will be displayed.

Ground Level Pressure Value Output

Insert the group address of the atmospheric pressure on ground level value output.

Ground Level Pressure Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Humidity Display (EIS 15)

Insert the group address of the display on which the humidity will be displayed.

Humidity Value Output (EIS 14)

Insert the group address of the humidity value output.

Weather Description Display (EIS 15)

Insert the group address of the display on which the weather description will be displayed.

Cloudiness Display (EIS 15)

Insert the group address of the display on which the cloudiness will be displayed.

Cloudiness Value Output (EIS 14)

Insert the group address of the cloudiness value output.

Wind Speed Display (EIS 15)

Insert the group address of the display on which the wind speed will be displayed.

Wind Speed Value Output

Insert the group address of the wind speed value output.

Wind Speed Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Wind Direction Display (EIS 15)

Insert the group address of the display on which the wind direction will be displayed (in degrees).

Wind Direction Value Output (EIS 10)

Insert the group address of the wind direction value output (in degrees).

Rain Volume Display (EIS 15)

Insert the group address of the display on which the rain volume for the last three hours will be displayed.

Rain Volume Value Output

Insert the group address of the rain volume (for the last three hours) value output.

Rain Volume Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Snow Volume Display (EIS 15)

Insert the group address of the display on which the snow volume for the last three hours will be displayed.

Snow Volume Value Output

Insert the group address of the snow volume (for the last three hours) value output.

Snow Volume Value Data Type

The data type for this floating point value

- EIS 5: 2 Byte Floating Point
- EIS 9: 4 Byte Floating Point

Weather ID (EIS 10)

Insert the group address of the weather ID output.