

Manual 365FarmNet MKII

Features

- Outdoor use according protection class IP65
- High protection against mechanical shock by encapsulated electronics
- Temperature resistant 4000mAh Lithium Thionyl Chloride Battery
- Easy assembly by screwing
- Bluetooth Low Energy® 5.2
- Eddystone & iBeacon compatible
- Management and setting of all parameters via blukii Manager and blukii Configurator App
- Individual pre-configuration possible (MOQ: 20 pieces)



Intended Use

Smart Beacons are Bluetooth transmitters that send a unique ID to surrounding devices at certain intervals. They are used to identify places and objects.

- This document is part of the product. It contains important information for installation and operation. Store it carefully.
- Any other use than described in these instructions is not permitted. The manufacturer assumes no liability for personal injury or damage resulting from improper use.
- The product must not be modified
- If the product is damaged, it may no longer be used.
- Only operate the device within the technical specifications.
- The product must not be exposed to strong mechanical loads.
- The beacon must be protected from strong heat.
- Do not operate the device near flammable gases and vapours.
- Do not remove any stickers or labels from the product. These contain important product and safety information.

Add Smart Beacons in the blukii manager

To be able to configure and manage your Smart Beacons in the blukii Manager, you have to add them to your blukii Manager account. Proceed as follows:

1. Log in to <https://manager.blukii.com/> with your blukii Manager account. If you don't have an account yet, you can create one for free.
2. In the "My blukiis" section, you can add new Smart Beacons using the "+ ADD" button. Enter the activation code from your delivery in the corresponding field. By clicking on the "ADD TO MY BLUKIIS" button, the Smart Beacons from your order will be assigned to your account.



Management and configuration via blukii Manager and Configurator App

The cloud-based blukii Manager acts as a central tool for managing and configuring your Smart Beacons. Device settings can be made here, which can then be transferred to the corresponding beacon using the blukii Configurator app. Changes made in the app are transferred to the blukii Manager.

To change the settings of your Smart Beacon, proceed as follows:

1. Log in to <https://manager.blukii.com/> with your blukii Manager account.
2. In the "My blukiis" section, click on the blukii for which you want to change the settings.
3. Make the desired changes and apply them by clicking the "Save" button
4. Place your smartphone near the appropriate beacon and start the blukii Configurator app
5. Select the corresponding blukii to get to the "Device Info" view. The orange cloud in the General section indicates that there are changed settings.
6. Now tap on the blue edit button at the bottom right and wait until the connection to the beacon has been established.
7. The Update area now appears in orange. Tap the "Update Device" button here to transfer the parameters changed in the blukii Manager to the beacon.
8. If you now exit the configuration view, a dark blue cloud shows that the data has been successfully synchronized and is up to date.

Parameter changes can also be made directly via the blukii Configurator app. To do this, proceed as follows:

1. Place your smartphone near the corresponding beacon and start the blukii Configurator app
2. Select the blukii for which you want to make changes
3. Then tap in the "Device Info" view on the blue edit button at the bottom right and wait until the connection to the beacon has been established.
4. Make the desired changes and apply them by clicking on the "Save" button
5. After leaving the "Configuration view", the changes are transferred to the blukii Manager

Changing batteries

The batteries in the Smart Beacon Outdoor Extreme 4000 cannot be replaced.

Help in case of errors

Error	Cause	Remedy
Smart Beacon is not detected in the Configurator app	The slider for the RSSI value is too low	Raise the threshold to get more distant beacons on the display
Smart Beacon is not detected in the Configurator app	The Smart Beacon is out of range	Make sure that the beacon is in the immediate range of your smartphone
The connection with blukii Configurator App fails. Notification: blukii connection failed!	The Smart Beacon is not assigned to your blukii Manager account	Add the blukii to your blukii Manager account. See section "Add Smart Beacons in the blukii Manager"



Technical specifications

Advertising

Beacon protocols	iBeacon, Eddystone (TLM, UID, URL) Default: iBeacon, Eddystone UID
Advertising interval	0,1s to 10s (adjustable) Default: 0,3s

Radio

Standard	Bluetooth 5.2 (Bluetooth Low Energy)
Controller	Texas Instruments CC2640
Range	Up to 100m
Frequency range	2.402 to 2.480GHz
TX-Power (adjustable)	High(5dBm) / Medium(0dBm) / Low(-9dBm) / Lowest(-20dBm)
Antenna	Customized OnBoard SMD-Antenna

Battery

Type	Lithium Thionyl Chloride
Model	1x EVE ER 18505 3,6V/4000mAh
Capacity	4000
Replaceable	No
Lifetime at Advertising interval 0,3s (TX-Power: +5dBm)	3,8 years
Lifetime at Advertising interval 1s (TX-Power: +5dBm)	10 years (chemical lifetime 10 years)

Mechanical specifications

Enclosure material	Polycarbonate
Colour	White
Protection Class	IP65
Flammability rating	UL94HB
Dimensions	90x35x35mm
Weight	125g

Environmental requirements

Operating temperature	-40°C to +85°C
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Certifications

CE (2014/53/EU, 2011/65/EU)
FCC / IC: 2BBC6-BOE402 / 30643-BOE402

Disposal

According to European guidelines and the German Electrical and Electronic Equipment Act (ElektroG), Smart Beacons must not be disposed of with household waste.

After use, dispose of Smart Beacons at a responsible collection point for old electrical and electronic devices

Smart beacons contain batteries. These batteries must not be disposed of with household waste. Please take them to an appropriate collection point in an unloaded state.



CE Declaration

hard&softWERK GmbH declares herewith that the device is compliant with the basic requirements and the relevant rules in directives 2014/53/EU und 2011/65/EU.





FCC/ISED Declaration

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s) and complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage.
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



Changes or modifications made to this equipment not expressly approved by hard&softWERK GmbH may void the FCC authorization to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The radiated output power of the device is far below the FCC and ISED radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact during normal operation is minimized.

Service

More information about your Smart Beacon:

Contact:	https://www.blukii.com/en/contact
Further documents:	https://www.blukii.com/en/resources
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