

# BlueRange Tag A1 Datasheet

IoT Bluetooth and BLE beacon for getting tracked within a BlueRange BLE mesh infrastructure in a Real Time Location use case or used as a sensor device

Item number: BR-AT-2019-00001



# BlueRange Tag A1

## Overview

- IoT Bluetooth and BLE beacon for getting tracked within a BlueRange BLE mesh infrastructure in a Real Time Location use case or used as a sensor device
- Optimized with BlueRange firmware
- Powered by exchangeable 1000 mAh CR2477 Li/MnO<sub>2</sub> battery (included)
- Easy installation and attachment via adhesives

## Specification, Characteristics

Type	Asset/Sensor Tag
Item number	BR-AT-2019-00001
Power supply	1000mAh CR2477 Li/MnO <sub>2</sub> battery
Transmission power	-30 to +4 dBm
Transmission circuit	10.5 mA (max.)
Chipset	Nordic Semiconductors nRF52832
Connectivity	Bluetooth 4.2 and newer, BLE
Accelerometer sensor	STMicroelectronics LIS2DH12 - 3-axis, ±2 g / ±4 g / ±8 g / ±16 g, 1 Hz -5.3 kHz
Temperature sensor	Bosch BME280 - Typical absolute accuracy ±0.5°C @ 25°C, ±1°C @ 0-25°C, output resolution 0.01°C
Relative humidity sensor	Bosch BME280 - Typical accuracy tolerance ±3%, Hysteresis ±1 %
Air pressure sensor	Bosch BME280 - RMS Noise 0.2 Pa, equiv. to 1.7 cm; Offset temperature coefficient ±1.5 Pa/K, equiv. to ±12.6 cm at 1 °C temperature change
Geometry (Diameter/H)	52mm / 12.55 mm
Weight	25 g
Operating and storage temperature	-20 to 65 °C
Protection class	IP67



## Connection

The beacon doesn't need any external connection to a power source. The beacon is powered by an internal battery. These can be easily replaced by removing the top of the casing.

The beacon will be automatically tracked in a BlueRange mesh, as soon as the device is enrolled. To easily enroll a beacon, use the BlueRange Commissioning App. The Application provides the opportunity to name the beacon for easy mapping.

The connection to the BLE mesh infrastructure is determined by the enrollment.

## Functional Description

The BlueRange Asset Beacon is used for all kind of IoT installations utilizing Bluetooth Low Energy communication to form set up asset tracking use cases. The beacon is tracked inside of any BlueRange installation, as long as the beacon is enrolled there.

## Order Information

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In standard application used for BlueRange installations of BLE mesh infrastructure and comes with BlueRange Firmware.

One year legal warranty.

Battery included.

## Signs and certificates

	<p>WEEE directive 2012/19/EU Do not dispose of with household waste!</p>
	<p>CE certification - Conformité Européenne Declaration in accordance with EU Regulation 765/2008 that the product complies with the applicable requirements laid down in the Community harmonisation legislation on its affixing.</p>
	<p>Approved by the Federal Communications Commission (FCC). FCC ID: 2AKDDRUUVITAG</p>

## Related Components

Our BlueRange Gateway is compatible with several **BlueRange Ready** components by other manufacturers. See examples below:

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### **Vossloh-Schwabe Deutschland GmbH – Blu2Light series**



All components of the Blu2Light series are fully BlueRange Ready and used to setup lighting installations.

The LiNA configuration and user apps are fully BlueRange integrated and completed

[vossloh-schwabe.com/blu2light-indoor](http://vossloh-schwabe.com/blu2light-indoor)

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### **Regent Beleuchtungskörper AG – Lightpad Tuneable series**



Regent Lightpad Tuneable office luminaires connect to a BLE mesh via BlueRange Mesh.

These luminaires can be controlled and managed via an App and/or connect to a cloud via a gateway.

[regent.ch/lightpad-tunable](http://regent.ch/lightpad-tunable)

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### **Herbert Waldmann GmbH & Co. KG / LIZ – YARA series**



The YARA luminaire series luminaires connect to a BLE mesh via BlueRange Mesh.

These luminaires can be controlled and managed via an App and/or connect to a cloud via a gateway.

[waldmann.com/yara](http://waldmann.com/yara)

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Find more **BlueRange Ready** products at:

[bluerange.io/components](http://bluerange.io/components)

## Further information and tools

Please find our documentation on how to setup and enroll a BlueRange BLE mesh infrastructure at [bluerange.io/developer](https://bluerange.io/developer).

## Link to the BlueRange Provisioning App:



## Contact:

### Technical question:

[bluerange@mwaysolutions.com](mailto:bluerange@mwaysolutions.com)

### Inquiries:

[sales@bluerange.io](mailto:sales@bluerange.io)

### General information on BlueRange

[www.bluerange.io](https://www.bluerange.io)

## Disclaimer

Subject to change without notice. All data without guarantee.

The data sheet refers to the current factory setting.

The function in installations with other devices must be checked in advance for compatibility.