

# IPS+ UWB Beacon P for indoor positioning (RTLS)

Art. No.: 22002369

For applications with the highest accuracy demands, a real-time localization system (RTLS) based on ultra-wideband technology working in the 6-7 GHz range can be a good fit. This consists of mobile senders (UWB Beacons) and stationary receivers with known positions.

This UWB Beacon P is the right choice for application where tracking the position of people is the main goal. This can be useful to increase employee safety, improve the efficiency of internal processes or enforce security measures in high-risk environments.

The beacon sends its ID in a configurable interval which can be used to influence the battery life of the device. The typical tracking accuracy is around 20cm if there are enough UWB Receivers in the area.

Thanks to the internal USB socket, the device is easy to charge over night with any existing cellphone charger. The integrated button sends an event to the receiver where it is forwarded to the local software (eg. the metraTec IoT-Engine) which processes this event. This can be used to trigger an alarm, ask for assistance or mark a certain spot.



- 📍 Wearable UWB Tracker
- 📍 USB Charging
- 📍 Up to 40 m range
- 📍 Button for alarms, etc.

## Technical Specification

<b>Operating Principle</b>	Ultra-Wideband (UWB) RTLS Beacon for people
<b>Operating Frequency</b>	6240-6740 MHz (Ranging) and 2400-2480 MHz (Configuration)
<b>Antenna Connector</b>	integrated wideband chip antenna
<b>RF Channels</b>	IEEE 802.15.4 Channels 11 – 26 supported (configurable)
<b>Read Range</b>	up to 40m (line of sight)
<b>Ingress Protection</b>	IP42
<b>Operating Voltage</b>	Integrated Li-Ion Battery charged via 5V (via USB)
<b>Battery Life</b>	Up to 14 days, depending on use case / ranging interval
<b>Weight</b>	50g
<b>Temperature Range</b>	-20 °C to +70 °C
<b>Dimensions</b>	80 x 50 x 12.5 mm (+ Clip)

This UWB Beacon only works with the corresponding UWB Receiver manufactured by metraTec. The ASCII protocol is open and can be processed by any software. For an easy start, have a look at our IPS+ Starter Kit consisting of 3 UWB Receivers, 2 Beacons and a demo version of our IoT-Engine software.

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### About Metratec

Metratec is a manufacturer of RF electronics specialized in wireless “Identification” (RFID) and “Localization” (RTLS). We serve a variety of markets from the manufacturing industry and logistics to vending machines and medical devices. Our customers include OEM customers, IoT system integrators and research facilities worldwide.

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