

metraTec® IPS Beacon R

The metraTec Indoor Positioning System (IPS) offers a flexible infrastructure for locating persons and objects inside a building using wireless technology - independent from GPS reception and with very long battery run times. The modularity of the individual components allows to build very slim solutions. These require only a minimal number of devices and no additional software licenses, thus protecting your project budget. At the same time, the system can also be used to create very extensive positioning solutions with high resolution and accuracy, which makes your internal and external production and logistics processes more transparent and efficient.

The IPS Beacons are active transponders that emit their IDs in a configurable interval. These signals are recognized by the appropriate IPS receivers and forwarded to our RTLS Middleware „IoT Engine“. The reception range is between a few meters and 100 m, depending on the device type. The software evaluates not only the data, but also can display the situation live on a map or pass the data over a variety of interfaces to other software systems.

The Beacon R is our most robust version for use in particularly demanding situations. The housing is made of 5 mm thick plastic and the electronics are watertight and shock resistant. The integrated battery has an approximate life span of 5 years with a signal every 20 seconds. Other beacons are also available, e.g. a larger version for objects (screwable, IP54, battery runtime at least 5 years) or a compact version for persons (as a keyfob, IP41, battery life approx. 2 years).

Applications

- Localization of vehicles in a depot
- Localization of products and work in progress
- Presence detection of rental items



Technical specification

Operating Principle	2,4 GHz Wireless Sender (IEEE 802.15.4)
Output Power	max. 4 dBm
Range	up to 100 m (Line of Sight)
Channels	Channels 11 - 26 supported
Power Supply	CR2477 Cell Battery
Battery Life	2 – 5 years (depending on ping-rate)
Signal Intervall	1-600 sec (configurable)
Housing	Polycarbonate, IP65
Dimensions	80 x 40 x 20 mm
Weight	57 g
Operating Temperature	-20° to +60°C
Conformity	CE (z.B. EN 300 328, EN 300 440)

At a Glance

- Sends out IDs to Receiver
- Extremely robust housing
- Small and light housing

About metraTec

metraTec develops, manufactures and sells RF hardware for the product segments „Identification“, „Localization“, „Communication“ and „Wireless Power“. It serves a variety of industries, both with standard products as well as custom solutions. Our customers are system integrators, OEM customers as well as research institutes world wide.

Accessories:

- IPS Ethernet Receiver
- IoT-Engine RTLS Middleware



Contact

metraTec GmbH
Niels-Bohr-Str. 5
39106 Magdeburg
Germany

Tel.: +49 (0)391 251906-00

Fax: +49 (0)391 251906-01

Email: sales@metratec.com

Web: www.metratec.com