



BEACON

Beacon Nameplates

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The smart-BEACON Plate is a digital nameplate based on Bluetooth® Low Energy (BLE). It enables the unique identification, digital management, and near real-time localization of machines, equipment, assets, and other objects. In addition, status, movement, and environmental data can be captured to make processes more transparent and increase efficiency in production, logistics, and service.

Activation and Battery Concepts

The digital nameplate is available as a BLE solution or in combination with RFID. Depending on the application, various activation concepts are available, such as via pull tab, NFC, UHF-RFID, or magnetic switch.

For maximum flexibility, different battery types can be used - from ultra-thin variants for

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Commercial register entries: Andreas Schrägle GmbH

Registered office Munich: AG Mchn. B 44890, smart-TEC GmbH & Co. KG: AG Mchn. A 8238 - VAT ID no.: DE 129 725 198

space-constrained applications to high-performance batteries for exceptionally long runtime. Battery life begins only upon activation during project operation. Transmission interval, transmission power, data format, and other parameters are individually configured to optimally tailor range, runtime, and performance to the specific application.

Customization and Sensors

The smart-BEACON Plate can be customized to meet specific customer requirements in terms of shape, size, material, mounting method, and printing. Thanks to its robust radio performance, it is ideally suited for identification in metallic environments. It is optionally available with integrated sensors, for example, for temperature, humidity, vibration, or pressure. This allows relevant status data to be collected and made available digitally in addition to identification and localization.

Applications

- ✓ Asset and equipment management
- ✓ Tool and equipment tracking
- ✓ Container and Material Flow Management
- ✓ Production, Logistics, and Service Processes
- ✓ Quality and Test Equipment Management
- ✓ IoT and Industry 4.0 Applications

Technical data



All properties of our RFID/NFC labels are optimized to your project requirements and application purposes.

Frequency	2.402 GHz – 2.480 GHz, 13.56 MHz (HF+NFC), 860-960 MHz (UHF)
Material	Aluminum, Stainless steel, PET, PVC
Labeling	Print, Laser

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Fastening	Self-adhesive, Mounting holes for cable ties, screws and rivets, Without fastening option
Sensors	Temperature, Humidity, Pressure, Shock
Delivery form	Isolated
Suitability for metal surfaces	Yes