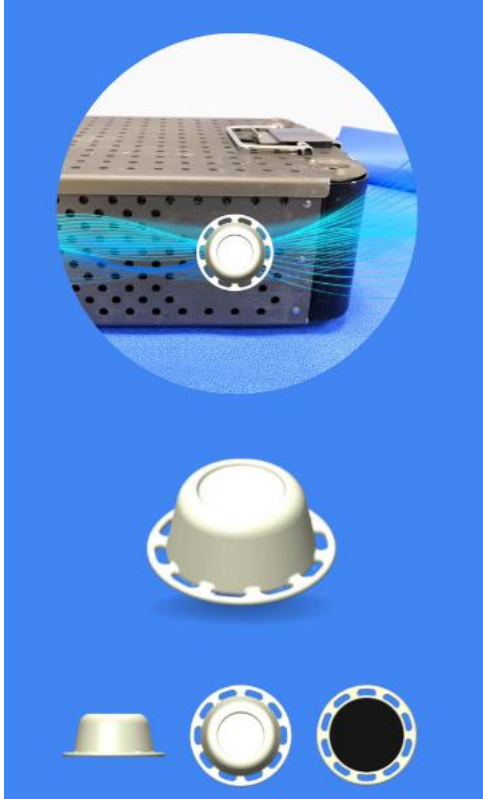


Intelligent Locations Autoclave Beacon (LAT-AC100) User Manual



Introduction:

Intelligent Locations' autoclave beacons are durable Bluetooth Low Energy (BLE) tracking devices built to withstand sterilization conditions, providing real-time visibility of surgical instruments throughout the reprocessing cycle. Each beacon carries a unique identifier, enabling automated data capture and eliminating manual scanning errors as trays and equipment move through the hospital.

The Autoclave beacon is a tracking beacon intended to experience high temperatures such as an Autoclave. With maximum operating temperature of 125C, and additionally potted so that can run in environments above that. This beacon has been tested to survive hundreds of autoclave cycles.

Additional safeguards include turning off MCU operation when temperatures reach above 35C. The beacon will advertise BLE packets at 3 second intervals. It'll read temperature every 2 minutes. Estimated battery life is 4 years. The advertisement

packet is a derivative of Intelligent Locations defined protocol, so it works hand in hand with our RTLS platform.

The specifications for the autoclave beacon are as follows:

PERFORMANCE

- 32-bit ARM® Cortex® –M3 33-bit 76.8 MHz
- Internal Temperature Sensor

CONNECTIVITY

- Bluetooth LE 5.2

POWER

- 3.0V 1000mAh Battery (non-serviceable)
- Expected Lifetime Approximately 4 Years (configuration dependent)

PHYSICAL DIMENSIONS & WEIGHT

- D1 – 1.88 in(47.80mm)
- D2 – 1.27 in(32.35 mm)
- H – 0.79 in(20.00 mm)
- Weighs Approximately 1 oz

The autoclave beacons are shipped in bulk to a customer site location. The Intelligent Locations Account team is responsible for installing these beacons.

Additional Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Class B:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*