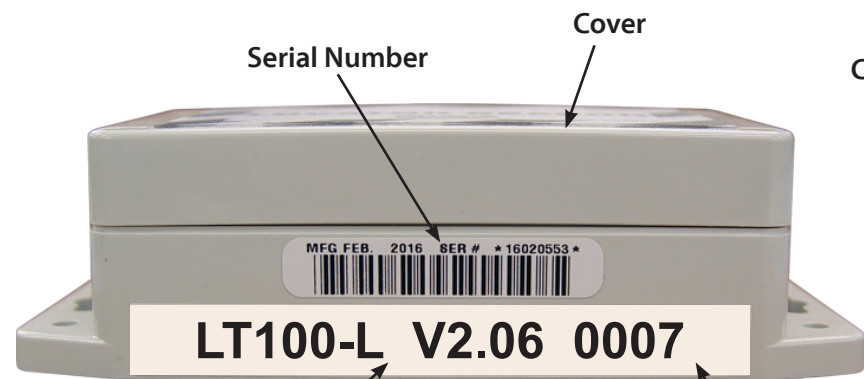




Locator Beacon
Model LT100-L
Powered by D-size 3.6 V lithium battery



Locator Beacon
Model LT100-EP
Powered by 12VDC wall plug with
lithium battery backup



Serial Number
Cover
LT100-L V2.06 0007
Model Number
and Firmware Version
Location Code
(ID Number)

Grace Industries Worker-worn Pendants



TPASS® 5



WorkForce® WF1



WorkForce® WF2



TPASS® 3



SuperCell®
SC500

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LT100 UI 0426

Locator Beacon LT100-L and LT100-EP User Information



Locator Beacon is a compact RF signaling beacon that automatically transmits its location ID to Grace Industries' Worker-worn pendants within RF range. The location ID is stored in the Worker-worn pendant, and is transmitted to any Grace monitoring base capable of displaying location.

Model LT100-L is powered by an ER34615 Non-rechargeable, "D-size" 3.6V Lithium battery, and the LT100-EP is powered by a 12 VDC wall plug with Lithium battery backup. Both models are suitable for mounting on ceilings, doorways and walls throughout a facility.

Grace monitoring bases can process and display over 4,000 unique Locator Beacon locations. The Worker-worn pendant's location ID is determined by the closest Locator Beacon within range of the pendant.

Locator Beacon coverage area is user adjustable. The smaller the coverage zone area, the more precise the location.

When an individual with a Grace Worker-worn pendant enters a Locator Beacon coverage zone, the pendant receives the location ID and transmits the location ID to any Grace monitoring base (capable of displaying location). The Locator Beacon has an adjustable Coverage Zone to accommodate various zone area sizes. Internal jumpers allow the Coverage Zone to be set to 6 different coverage area settings: 1-Smallest to 6-Largest.

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Installation and Setup

Before installing the Locator Beacon, completely read the following installation and setup information.

For broad area personnel location within a facility, position the Locator Beacon at strategic entry and exit locations.

For more precise personnel location within a facility, install Locator Beacons closer together.

It is important to survey the facility to determine optimum placement of Locator Beacons to match your personnel locating requirements.

Always test for proper operation and function. Radio equipment operating in and around the facility, especially in the 902-928 MHz band may cause Locator Beacon interference.

Locator Beacon should be installed on a stable surface as close as possible to the center of the desired Coverage Area. Mounting the Beacon on a metal wall or ceiling is acceptable and is helpful for RF transmission. Install Locator Beacon away from other radio equipment, antennas and lighting fixtures. Avoid placing Beacons too close together as this could increase the possibility of overlap (i.e. a Worker-worn Pendant may simultaneously receive location ID from multiple Beacons).

For optimum performance, when a Locator Beacon is installed near a Grace Repeater, the Beacon's zone coverage level should be set to a low enough level so that the Grace Repeater is located outside of the Beacon's coverage area.

NOTE: Grace Repeaters do not repeat location codes from the Beacons. However, Grace Repeaters will repeat all signals from Grace Safety devices, including Worker-worn Pendants.

Testing the Coverage Zone

After installation, Locator Beacons must be tested to ensure the selected Zone is covering the desired area.

To perform this test, a SuperCELL® SC500 or WorkForce® WF2 pendant is required.

To test the Locator Beacon's Coverage Zone:

1. Remove the Beacon's cover to access the Test Mode Switch.
2. Place Locator Beacon in Test Mode by pressing the Test Mode Switch momentarily for 1 second (but not more than 2 seconds). The Test Mode LED will flash with each Test Mode transmission. (See Illustration).

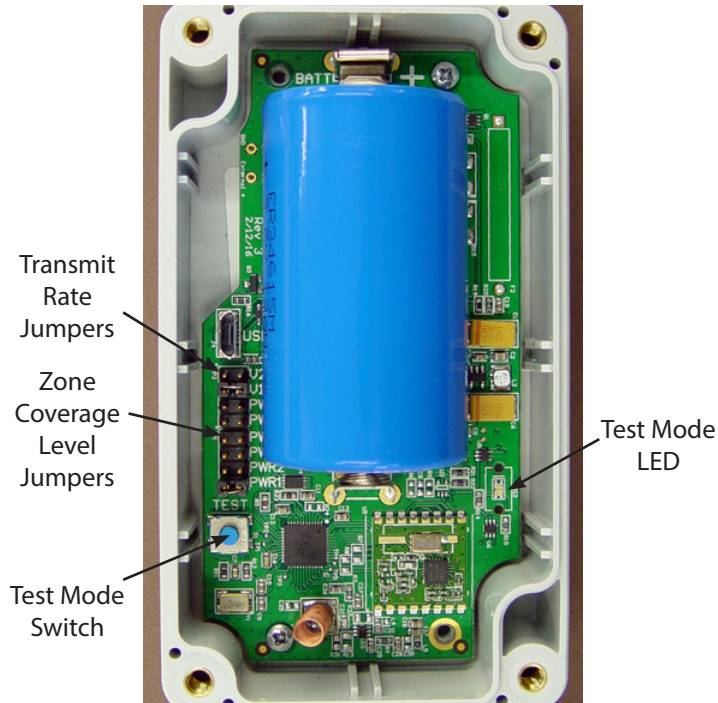
Enter Range Test Mode on SuperCELL® SC500 or WorkForce® WF2 pendant:

1. SuperCELL® SC500: Power ON, then press the mode button to enter Setup Mode (see SuperCELL® SC500 user information). Scroll through the menu options until you reach **Range Test Mode**, press the Select button to enable **Range Test Mode**.
2. WorkForce® WF2: Power ON, then press the menu button to enter Setup Mode (see WorkForce® WF2 user information). Scroll through the Setup Mode until you reach Range

Test Mode, press the Select button to enable **Range Test Mode**.

While in Range Test Mode, the SC500 or WorkForce®2 will display the Locator Beacon location ID.

NOTE: Locator Beacon automatically exits Test Mode 5 minutes after pressing the Test Mode Switch. If more time is needed, press the Test Mode Switch again for a minimum of 1 second, and not more than 2 seconds; and continue testing.



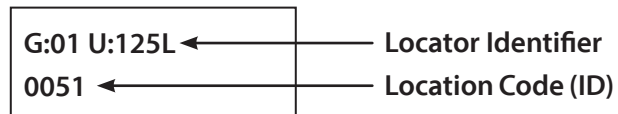
Inside view of LT100-L

To test the Locator Beacon's Coverage Zone:

Walk slowly in and out of the Coverage Zone.

Each time the SC500 or WorkForce®2 receives a signal from the Beacon, the pendant will beep and display the received Beacon Location ID.

Note: When the SC500 and WorkForce®2 pendants are in Range Test Mode, the device will beep when receiving any other pendant RF signal. To avoid confusion with other Grace pendants, turn off all other pendant devices or verify the receive signal displayed on SC500 and WorkForce®2 is the Beacon Location ID - the four digit ID number displayed below "G:01 U:125L".



Pendant display screen in Range Test Mode

Repeating this process at the circumference of the Coverage Zone will help you determine the physical area covered by each Beacon.

The Coverage Zone can be changed by moving the Beacons mounting location and/or changing the Zone Coverage Level setting.

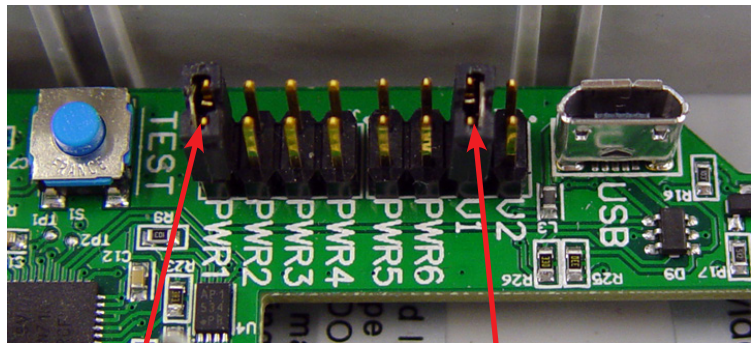
Note: Locator Beacon signals can be transmitted through walls. Keep this in mind when installing Beacons in narrow hallways and doorways. In these small areas, setting the Zone Coverage Level to a lower setting or placing Beacons in the middle of a Coverage Zone will provide best results.

Adjusting the Coverage Zone Area

The Locator Beacon has 6 Zone Coverage Level settings.

Level 6 provides the largest Coverage Zone.

Level 1 produces the smallest Coverage Zone (up to approximately 30 ft. unobstructed).



To Change Locator Beacon's Zone Coverage Level:

1. Remove the Beacon's cover to access the Zone Coverage Jumpers.
2. Remove the battery and wait 3 seconds.
3. Move the shorting-jumper to the desired Zone Coverage Level. Care must be taken not to bend the pins and to ensure shorting jumper is properly seated on both pins.

NOTE: PWR1 is the smallest Zone Coverage Area.

PWR6 is the highest Zone Coverage Area.

Locator Beacons operate at a standard Transmit Rate of one location ID every second. This is suitable for walking foot traffic. If you need a higher transmit rate such as when devices are worn by operators of motorized equipment (trucks, forklifts, etc.) You can increase the Transmit Rate by moving the jumper from V1 to V2. This will double the Transmit Rate but will correspondingly reduce battery life by half.

4. Reinstall battery.
5. Replace cover and tighten all 4 screws to 8 in-lbs torque.

A higher Zone Coverage Level provides a longer range for communicating the Beacon's location ID to a SuperCELL® SC500 or WorkForce® WF2. The Zone Coverage Level should be set to the lowest level that permits consistent, reliable operation.

NOTE: For optimal system performance, do not overlap Locator Coverage Zones.

Battery Information

Battery Life: 3 years in Coverage Zone settings PWR1 - PWR3. (Less for higher Coverage Zone settings). 10 year shelf life.

Low Battery Indication: The LT100-L Locator Beacon with a low battery will be identified on the Grace Monitoring System screen by an "L" following the Locator ID number (ex. 0801 L).

Battery Replacement: Replace with ER34615 Non-rechargeable 3.6 Volt D-size Lithium battery.

Specifications

Size: 5-3/4" x 2-5/8" x 1-5/8" deep.

Weight: 9.2 oz. (260 grams).

Battery Power Input: 3.6VDC, D-size Lithium Battery.

- **NOTE: Battery is Not rechargeable** -

External Power Input: 12VDC (regulated +/-5%).

- **Provided wall plug power supply is for indoor use only** -

Frequency Range: 902-928 MHz.

Compatibility: Grace RadioH® personal safety products and GraceWatch® Monitoring Systems.

Case: NEMA enclosure type 4X, 12, 13. Indoor/Outdoor. To maintain NEMA rating (case only), all openings must be covered. Cover screws must be torqued 8 in-lbs.