



**Lost Recovery Network, Inc.**

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**LRNI Tag Enclosure Specifications:  
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In the world of RFID there are many applications that involve tracking assets in harsh environments. Whether outdoors exposed to the elements, in high-heat manufacturing processes, or being jostled around on shipping containers or equipment, RFID tags must be able to withstand unforgiving conditions. To help you maintain your active RFID network, LRNI offers two basic RFID tag configurations, Flat and Cube, and many tag enclosure options. Our exclusive enclosures shield the sensitive electronics inside our Active RFID tags from even the most adverse environmental conditions. With the proper protective covering, RFID tags can endure extreme heat and cold, dust, moisture and submersion, shock from falls, etc. Three of the most popular tag enclosures are the **General Purpose Weatherproof Enclosure**, **Durable Enclosure**, and **Enhanced Durability Enclosure**.

All tags are available in a number of mounting configurations. Magnetic bases, double-sided adhesive and permanent mounting brackets are all used currently. Let us know what your application is and we can develop a mounting solution to meet your needs.

### **TAG ENCLOSURE DIMENSIONS:**

Flat dimensions (HxWxL):

Durable

.500" x 1.563" x 2.5"

Enhanced Durability:

.688" x 1.563" x 2.5"

Weatherproof:

.438" x 1.563" x 2.375"

Cube dimensions (HxWxL):

Enhanced Durability:

1" x 1.25" x 1.25"

### **TAG ENCLOSURE DESCRIPTIONS:**

Please see the following pages for tag enclosures descriptions.

# General Purpose Weatherproof Enclosure

LRNI's General Purpose-Weatherproof Tag Enclosures feature a lightweight design for indoor and outdoor environments where water protection is needed.

## Characteristics:

- Excellent for outdoor areas. Weather proof.
- Maximum temperature:
  - 20 degrees C to 60 degrees C
  - 4 degrees F to 140 degrees F
- Dimensions (LWH): .438" x 1.563" x 2.375"
- Excellent dimensional stability and strength
- Resists gasoline, solvents, and other neutral chemicals
- Superior abrasion resistance
- Meets ASTM D-4181 and FDA 21 CFR 177.2480
- One 3/32 hole for mounting, other options available
- Available for the Flat tag only
- White



## Durable Enclosure

LRNI's Durable Tag Enclosures are for use in environments that require added impact and shock protection as well as weatherproofing. One feature that sets this tag apart is that its internal compartment is accessible and battery replacement is possible.

### Characteristics:

- Maximum temperature:  
-20 degrees C to 60 degrees C  
-4 degrees F to 140 degrees F
- Dimensions (LWH): .500" x 1.563" x 2.5"
- Excellent dimensional stability and strength
- Resists gasoline, solvents, and other neutral chemicals
- Superior abrasion resistance
- Meets ASTM D-4181 and FDA 21 CFR 177.2480
- One 3/32 hole for mounting, other options available
- **Re-sealable for battery replacement**
- Available for the Flat tag only
- Dark gray

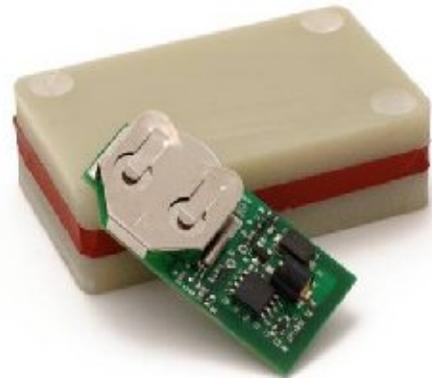


# Enhanced Durability Enclosure

LRNI's Enhanced Durability Tag Enclosures were designed for use in harsh industrial environments, have undergone MEOST (Multiple Environmental Overstress Testing), and are made from heat and shock resistant material that will not impede RF signals. This is the most durable enclosure LRNI offers for extreme environments.

## Characteristics:

- Our most durable tag enclosure
- Fiberglass Epoxy Laminate. Solid material impregnated with synthetic resin formed under pressure and heat
- High dielectric and impact strength- PSI-52,000
- Resistant to heat, moisture, chemicals, oil corrosive solutions, acids, alkalis, and solvents
- Lightweight yet dimensionally stable
- Dimensions (LWH): .688" x 1.563" x 2.5"
- Maximum temperature is 338 degrees F
- One 3/32 hole for mounting, other options available
- Available for both the Flat and Cube tags



## MEOST tests this tag has undergone:

- Submersion in dip tank
- Temperature (6 second 2,200 degrees F direct flame)
- Vacuum at Mass Spec (3 minutes)
- Forced air dryer at 280 degrees F (30 minutes in dryer)
- Impact Drop test from 5 feet



## ***Warranty for LRNI Tag Enclosures:***

*LRNI warrants that the Products we sell will be free from defects in materials and workmanship. The limited warranty term is 90 days, as further described in the following text.*

*This warranty is limited to the repair and/or replacement, at LRNI's discretion, of defective or non-conforming Product, and LRNI shall not be responsible for the failure of the Product to perform specified functions, or any other non-conformance caused by or attributed to: (a) any misapplication or misuse of the Product; (b) failure of Customer to adhere to any of LRNI's specifications or instructions; and (c) neglect of, abuse of, or accident to the Product.*