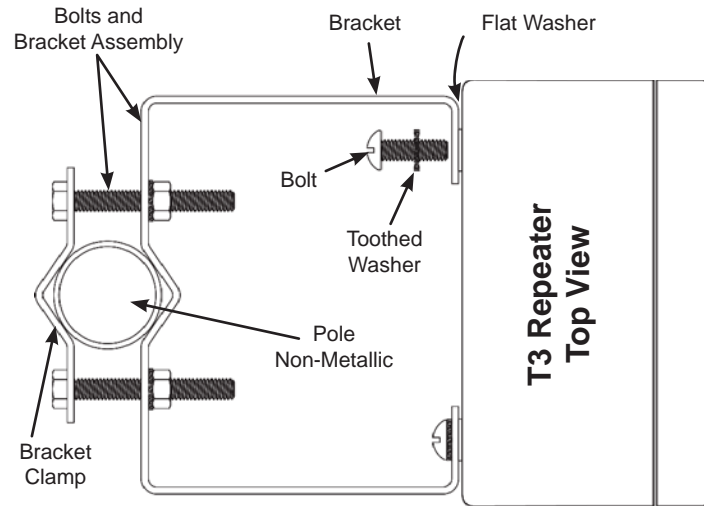
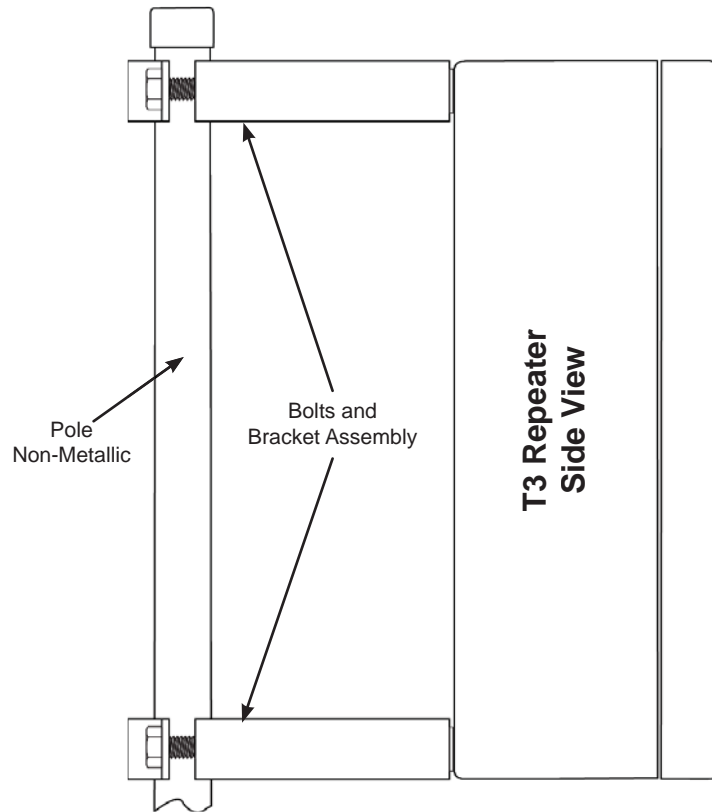


## T3 Repeater Mounting Assembly



T3 Repeater  
Top View



T3 Repeater  
Side View

**Improper Installation May Degrade Performance**

### FCC Statements

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

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### Industry Canada Statements

This Class A digital apparatus complies with Canadian ICES-003.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada. (select the class for your device)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### GRACE One (1) Year WARRANTY

Grace Industries Incorporated, of Fredonia PA 16124 USA, warrants products that it manufactures to be free from defects in workmanship and materials for a period of one (1) year from the original date purchase. This warranty does not apply to third party products sold by Grace Industries. Grace Industries will repair or replace, at their sole discretion, defective products free of charge. This warranty applies to products that Grace Industries deems defective in its sole discretion due to defects in material or workmanship under normal use and maintenance and where a defect was not caused by accident, misuse or abuse of the product and that no disassembly, repairs or parts replacement were made or attempted by other than Grace Industries' personnel. **GRACE INDUSTRIES, INCORPORATED SHALL NOT BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGE ARISING OUT OF THE USE OF THE PRODUCT OR FAILURE OF THE PRODUCT TO OPERATE.**

The sole and exclusive remedy under all guarantees or warranties, expressed or implied, is strictly limited to repair or replacement as herein provided. **ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF FITNESS AND MERCHANTABILITY, ARE HEREBY LIMITED IN DURATION TO A PERIOD OF ONE (1) YEAR FROM THE DATE OF ORIGINAL PURCHASE.** The warranty and liability set forth here are in lieu of all other warranties, expressed or implied, in law or in fact, including warranties of merchantability and fitness for a particular purpose.

**Warranty claims process:** 1) Obtain a Return Authorization Code or Number from Grace Industries corporate headquarters by calling phone number 724-962-9231, or by email correspondence to sales@graceindustries.com. 2) The product name, serial number, date and proof of purchase must be provided and 3) Return products including Return Authorization number, prepaid and accompanied by original proof of purchase that states the date and location of purchase to: Grace Industries, Inc., Repair Department, 305 Bend Hill Road, Fredonia, PA 16124, USA. Customer is responsible for all shipping costs, return shipping costs, handling, or any other fees associated with a warranty claim.



Grace Industries, Inc.

724-962-9231

305 Bend Hill Rd

Fredonia, PA 16124

service@graceindustries.com

## T3 Repeater User's Information

**Only To Be Removed By End User**



**MADE IN USA**

**GRACE INDUSTRIES, INC. LONE WORKER SAFETY**

## T3 Repeater



Front View



Inside View  
Shown with Heater Option



Bottom View  
This view shows Transmit Indicator and Power Indicator

**Transmit / Receive LED**  
GREEN: Transmitting  
RED: Receiving

**Power LED**  
GREEN: Running on AC Power  
RED: Running on Battery

## T3 Repeater System

T3 Repeater is a system option designed to enhance signal effectiveness in harsh environments by retransmitting signals to and from tough and hard to reach areas.

T3 Repeater retransmits signals from the Base to the PASS (man-down alarm) and from the PASS to the Base. The T3 Repeater is omni-directional, enclosed in an industrial grade case and is permanently mounted. T3 Repeater is powered by 85-264 VAC 50/60 Hz Single Phase 1Amp, with a lead acid battery backup system.

### T3 Repeater Operation

Once the repeater has been prepared for AC power, the unit may be plugged in. AC power connector is a screw less Terminal rated for solid or stranded wire from 14-22AWG. Wire should be stripped at a 1/2". Wires should be inserted by using a small screwdriver to depress the lever and then inserting the wire.

When the T3 Repeater is plugged in to AC Power, the Red/Green AC Power Indicator glows (or flashes) Green - indicating the system has AC Power and is ready for operation. With loss of power, the Red/Green AC Power Indicator glows (or flashes) Red - indicating the Backup-Battery System has been automatically activated, keeping the Repeater ON and ready for operation.

### Power Indicator LED

- Green Steady Glow: AC Power and battery is fully charged.
- Red Steady Glow: Running on battery backup
- Red Flashing: Running on Low Battery.
- Red/Green Alternate Flashing: Battery fault detected. Battery is either extremely discharged, open or shorted.

If fault occurs at power-up, the indicators should clear in 4 - 6hrs. If fault continues after 12Hrs Battery is failed (Open or Shorted).

## Transmit / Receive LED

- Red Flashing: when Repeater is repeating a signal.

## T3 Repeater Specifications

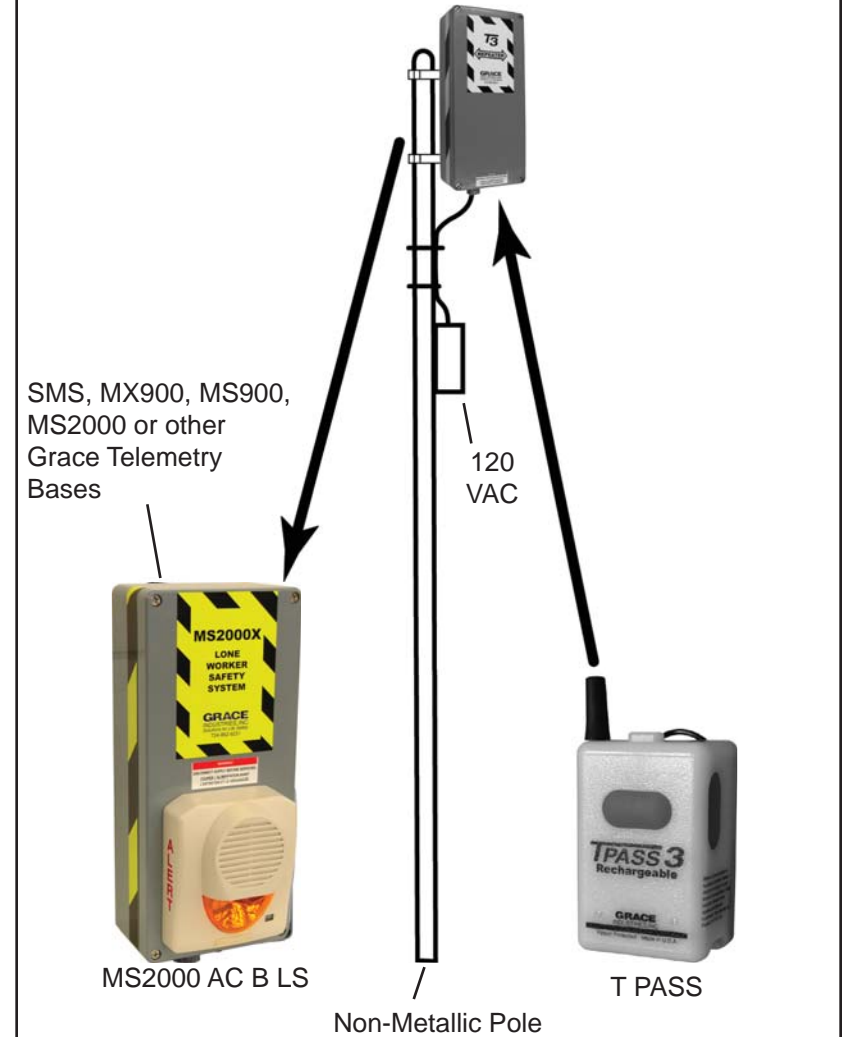
- Case: Rugged, industrial grade, waterproof enclosure
- Case Dimensions: 6.25" Wide x 15" High x 3.5" Deep
- Color: Medium gray
- Weight: 8.5 lbs (without cable and mounting brackets)
- Power Requirements: 85-264 VAC 50/60 Hz Single Phase 1Amp
- Complies with: UL 60950-1, CSA C22.2 No. 60950-1
- Receiver Type: Frequency hopping spread spectrum
- Operating Frequency: 902-928 MHz
- FCC ID: J5MXHEM -- Meets FCC Part 15
- IC: 5916A-MXHEM -- Complies with Canadian ICES-003
- Environmental Range: -40°C to +55°C
- Heated system option recommended for environments below 32°F / 0°C
- Antenna: 1.7" Internal
- Compatible Equipment: Grace telemetry products
- Dual Mounting Brackets for recommended pole-mounting
- Cleaning / Decontamination: Units contaminated by chemical or radioactive materials must be disposed of or decontaminated in accordance with all applicable regulatory standards. DO NOT mark or apply paint to T3 Repeater.

### IMPORTANT:

**Always test System for proper operation before field use.**

**NOTE: T3 Repeater must be mounted in an area where there is a clear, unobstructed path to the environment where the PASS may be used**

## T3 Repeater System Installation



Hardware for recommended pole mounting is included with each T3 Repeater.

See next page for mounting instructions.

**DO NOT Mount T3 Repeater against walls or metal surfaces!**