



# THOR GUARD Model L150

## LIGHTNING PREDICTION SYSTEM



The THOR GUARD L150 Lightning Prediction System scientifically predicts the probability of a lightning strike, including the very first strike, within a defined area of approximately five miles in diameter. THOR GUARD is designed to provide adequate warning, so customers may safely find appropriate shelter prior to a lightning strike.

More than 30 years, representing many thousands of hours of research and observation of storm activity have been invested in our proprietary algorithms. The culmination of these ongoing efforts enable THOR GUARD to monitor and evaluate the changes and intensity of electrostatic energy associated with lightning activity, a proven and superior approach to a typical detection system.

## FEATURES

- Easy to read color vacuum fluorescent display.
- “Field Collapse Count” indicator shows lightning discharges during storm activity.
- Unique “Activity Detector” displays projected time until resumption of safe operations.
- Instant Lightning Hazard Level (LHL) and Dynamic Index (DI) displayed during a storm.
- Three distinct warning levels of potential, electrical storm activity (Caution, Warning, Red Alert).
- 12 selectable ranges permit desired range and optimum performance.
- Automatically self-tests itself every 24 hours (may also be manually tested).
- RS232 “Output” (DB9) port allows interface with THOR GUARD’s THORPCX (Optional)
- Automatically monitors the potential risk of a dangerous “bolt out of the Blue” condition.
- Auto/Manual control to enable both monitored and unmonitored operations.
- Digital software control circuit that resets the system after power interruptions.
- RS422 “Output” for long range data transmission capability.
- 40 segment “Energy Level” LED Display to show instantaneous energy migrations.
- Volume-controlled internal warning / red alert audio alarm.
- Local Alarm power strip to activate a local strobe light or irrigation system.
- Interfaces to the THOR GUARD VOT alarm system.
- Customize VOT programmable hours of operation.
- Airport Model (L150A) allows access to all alarm levels through internal relays.
- Automatic testing format for external alarm components.
- Secure operational settings are protected by security key access only.

# SELECTED SPECIFICATIONS

**Models:** L150, L150A

**Power Requirement:** Voltage: 120 Volts AC, 60 Hz, Single Phase  
Power: .25A, 30 Watts

**Power Supply:** 3-Plug, Wall Mounted, Grounded  
120 VAC, 60 Hz  
Dimensions: 2.68" W x 2.19" D x 3.45" H  
Safety Specifications: UL, CSA  
Power Cord: 6 ft. Weight: 1.5 Lbs.



**Hyperstatic  
Sensor**

**Console:** Dimensions: 8.25" W x 9.25" D x 6.50" H  
Weight: 5.5 Lbs.

**Hyperstatic Sensor:** Dimensions: 4" W x 13" H  
Weight: 2 Lbs. (Excluded Cable)  
Construction: PVC - Sealed  
Mounting: 1" Diameter Pipe



**VOT BD  
or  
VOT RC**

**Sensor Cable:** West Penn 5992 (Optional Plenum Cable)  
3/8" Dia. Double Shielded Triaxial with Teflon Core  
Standard Lengths Available 75ft., 125ft., 150 ft. (200 ft. Max. Length)

**Vot Comm-Link Cable:** West Penn ACQ 3186 UL Listed Nec Type CL3 (Optional Plenum Cable)  
5/16" Dia. Shielded 6 Conductor PVC Jacket.  
Standard Lengths Available 75 ft., 125 ft., 150 ft. (200 ft. Max. Length)

**VOT Air Horn Cluster:** Manufacture: THOR GUARD  
Material: Fiberglass; Dome & Horn Mounting Plate  
Weight: 13 Lbs. (Excludes Cable)  
Cable: General Cable 234600 12AWG (UL) Type TC-ER  
Sound Output: 113db @ 10ft., 700 Yard Radius, Typical Coverage



**VOT Horn**

**Strobe Light:** Manufacture: Whelen 51 Series (UL) Listed  
Dimensions: 3.90"H x 5.2" Dia.  
Power: 12VDC (Supplied by System Battery)  
Light Output: LED High Intensity Multi-Flash, Amber  
Cable: West Penn AQ224, 18AWG 2-Conductor  
Length: Standard 12 ft., 40 ft. (Additional Lengths Available)  
Weight: 1Lb.



**LED Strobe  
Light**

**RF Specifications:** Frequency: 27.255MHZ FSK  
Power: 4W and 12W  
Cable: Judd Wire C1401140, RG-58, UL, CL2

(Specifications & features subject to change without notice)