



# THOR GUARD Model L75

## LIGHTNING PREDICTION SYSTEM



THOR GUARD leads the world in the manufacture of lightning prediction and lightning warning systems. Since 1972, THOR GUARD has utilized our proprietary atmospheric electrostatic analysis to produce a variety of lightning prediction systems to meet the technical and budgetary demands of various customer groups.

THOR GUARD's Model L75 is our first upgradeable base prediction and warning system control center. Customers can now have an entry level system, automatic or manual, capable of providing audible and visual warning for a single site. The L75 is fully upgradeable, so that at any time in the future, you can provide warning for remote locations up to 1<sup>1</sup>/<sub>4</sub> miles away.

## FEATURES

- Easy to Read Large Blue Vacuum Fluorescent Display.
- 40 segment "Energy Level" LED Display to show instantaneous energy migrations.
- "Field Collapse Count" indicator shows lightning discharges during storm activity.
- Unique "Activity Detector" displaying projected time until resumption of safe operations.
- Instant Lightning Hazard Level (LHL) and Dynamic Index (DI) continuously displayed.
- All Clear, Caution, Warning, Red Alert, each distinct warning level clearly displayed.
- Multiple range options available for different geographic areas and user applications.
- User adjustable Red Alert level for increased storm notification time.
- Programmable sensor self-test every 24 hours at user selected time.
- Separate Test key provided to manually verify sensor operation.
- Connects to THOR GUARD's ThorPCX visual display and storm storage software.
- Two (DB9) RS232 ports and 1 USB port to run THOR GUARD'S ThorPCX (Optional)
- Two hazard levels of local audio alarm with user adjustable volume control.
- Option provided for user to mute local audio during storms.
- Auto / Manual mode manages alarms for monitored or unmonitored operations.
- Option to manually sound **All Clear** or **Red Alert** alarm horns by user.
- Self-powered Internal Storm Buffer maintains recent storm times and hazard levels.
- User-selectable hours of alarm operation or 24-hour continuous operation.
- System diagnostics to facilitate and maintain correct operations.
- Compact design and robust construction, sealed tactile feedback membrane panel.
- Access to **All Clear** & **Red Alert** signal using dry closure contacts relay.
- Wall or table mounting.
- Interfaces with **THOR GUARD WEATHER** (Optional).
- Optional software for use at Airport locations.
- Can be upgraded to the THOR GUARD GUARDIAN EMERGENCY NOTIFICATION SYSTEM.

# SELECTED SPECIFICATIONS

**Models:** L75T, L75B, L75I, L75R

**Model Specifications:** L75T ..... Local Hazard Output, +12 Volt DC  
 L75B ..... Local THOR GUARD VOT Base Horn  
 L75I ..... 2 Separate Dry Closure Relays  
 L75R ..... Local THOR GUARD VOT Base Horn & Remote Horns

**Safety Specification:** TÜV (NTRL), CE

**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.

**Console:** Dimensions: 7.25" L x 8.75" W x 1.75" H  
 Weight: 2 Lbs.

**Lightning Prediction Sensor:** Dimensions: 12" L x 6" W x 14" H  
 (Maintenance-free) Weight: 2 Lbs. (Excludes Cable)  
 Mounting: 1" Diameter Threaded Pipe

**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: ASA; Dome & Horn Mounting Plate  
 Weight: 8 Lbs. (Excludes Cable)  
 Cable: General Cable 234600 12AWG (UL) Type TC-ER  
 Sound Output: 113db @ 10ft., 700 Yard Radius, Typical Coverage

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

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



**Lightning Prediction Sensor**  
 (Maintenance-free)



**VOT BD**  
 or  
**VOT RC**



**VOT Horn**



**LED Strobe**  
**Light**

(Specifications & features subject to change without notice)