

Mobipax LLC MP3 Lightning Detector Specifications

Mobipax LLC, PO Box 550, Sandown, NH 03873 info@mobipax.com

Purpose:

The Mobipax LLC's MP3 Lightning Detector detects existing lightning and warns via lights and sounds (administrator controllable) to help alert people about the existence of lightning danger. Early detection can save lives by allowing people to seek shelter as early as possible. This detector should be part of any and all lightning awareness programs to provide an additional means to identify danger, especially when lightning cannot be seen or thunder heard. This detector does not anticipate, predict, deter, protect or otherwise defend against lightning. Users must seek appropriate shelter as defined by <http://noaa.gov> upon the earliest indication by: an alarm indicated by this detector, when lightning is seen, or when thunder is heard.

Size:

- Approximately 6 feet tall
- 3.5" tubular
- 4"x4"x3" electrical box
- Intended to be mounted 10'-12' up on a pole, post or building

Materials:

- 3" Schedule-40 heavy duty Aluminum Pipe (3.5" O.D.)
- Tough Clear Polycarbonate Tube 3" x 1/8"
- Aluminum Power Supply Box
- UV Resistant ABS external plastics parts
- Steel powder-coated heavy duty mounting bracket.

Compliance:

- FCC Part 15B tested and compliant for both commercial and residential applications.
- Canadian ICES - 003B Compliance tested and verified.

Options:

- An optional Neighbor-Saver option allows the Siren to be automatically muted at dusk (no daylight = no sound). This is useful to assure that no siren sounds at 2:00AM when folks are sleeping. This feature does not affect the LED lights.
- MP3 Installation Pole – Direct bury 16 foot (12 above ground) 3" Schedule 40 pole with electrical connection and mounting holes pre-drilled for the MP3 Lightning Detector. Powder-coated Black. Requires 4 foot deep hole and cement installation to support high winds and errant pole climbers.

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Features:

- Utilizes the austriamicrosystems AS3935 sensor which detects the electrical emissions from lightning activity. A proprietary algorithm in the sensor hardware then converts the RF signal into an estimation of the distance to the head of the storm. "Based upon field trials conducted by Florida Tech, preliminary results of studies conducted in Florida and in Finland show that the austriamicrosystems' lightning sensor has the potential to be used as a lightning early warning system that could augment other methods such as the 30-30 (1) rule for lightning safety" said Dr. Joseph Dwyer, Professor, Department of Physics and Space Sciences, Florida Institute of Technology, one of the world's leading research institutions in the field of lightning physics
- Bright LEDS to alert to the presence of detected lightning
 - GREEN = All OK and Power is ON
 - RED = OVERHEAD Lightning Danger
 - ORANGE = NEARBY Lightning Danger
 - YELLOW = APPROACHING Lightning Danger
- Adjustable Siren, volume controllable via the device's administrator mobile application for MUTE and 4 Volume levels. Also see the Neighbor-Saver Dusk-Quiet option.
- Free mobile phone/tablet applications to allow anyone to monitor MP3 lightning detectors remotely. This is useful for checking lightning activity remotely. The mobile application provides notifications for storm activity and device status.
- Smart-City and Industrial Remote Control via Industry Standard BACnet Consoles Like [“Connect With ODIN”](#)
- Administrator controls via the mobile phone/tablet applications:
 - Select and enable daily 'Hours of Operation', allowing the devices' LEDS/SIREN to operate only during specific hours.
 - Control the Siren's Volume Mute->Loud at any time.
 - Test the device's Siren and Lights. This should be performed, according to Brevard County standards, at least every 30 days. Testing is as easy as pushing the “Force Alarm State OFF/ON” button on the Administrator's Mobile Application.
 - Manually turn the device OFF/ON at any time.

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- A 30 Minute timeout indicates when no lightning has been detected for 30 minute by sounding the V for victory (···-) and changing the LED lights back to GREEN. This 30 Minute timeout after the last detected lightning or thunder is mandated by Brevard County and suggested by <http://noaa.gov>

Mounting the unit:

The Lightning Detector is delivered with a sturdy steel powder-coated mounting bracket. The mount is designed to make installation easy. For the strongest attachment, use 1/2” Stainless Steel bolts through a pipe or post, or attach via 1/2” bolts near the top of a building. The top of the unit must be unobstructed, having a 360 degree ability to sense lightning and for the LED warning lights to be seen by users, so trees, building and other formations should be considered during installation. Our optional MP3 Installation pole is recommended.

Electrical Connection:

The unit's Electrical box has a 1/2” NPT standard electrical connection for hookup to 120VAC. The Lightning Detector or the Lightning Detector's installation Pipe must be grounded. We recommend a 1/2” x 8' ground rod and at least #6 wire or thicker to dissipate any unexpected electrical charges.

Pricing:

- The Mobipax LLC MP3 Lightning Detector is priced at **\$2500.00**, which includes the Lightning Detector, Mounting Bracket Kit. Shipping and Installation are additional charges.
- The Communications Kit is priced at **\$1000.00**
- The Android and iPhone Remote Mobile Application Administration are **FREE**.
- A **\$15/month** fee applies for data connection.
- The Optional Neighbor-Saver Dusk-Quiet is **\$165.00**
- The Optional MP3 Installation Pole is **\$695.00**. Shipping and Installation are additional charges.

Notes:

- The Lightning 30/30 rule cited by Dr. Joseph Dwyer: If it takes less than 30 seconds to hear thunder after seeing the flash, lightning is near enough to pose a threat; after the storm ends, wait 30 minutes before resuming outdoor activities.
- Brevard County 30-30 Rule: <http://www.neola.com/brevardco-fl/search/AP/ap8420.01.htm>
- Brevard County: “Use of lightning prediction and warning systems, where provided by the District, is mandatory.” <http://www.neola.com/brevardco-fl/search/AP/ap8420.01.htm>

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