Overview

The RA110 allows an alarm system to be located several miles from the LW110 Lightning Warning System. The RA110 uses telemetry to receive electric-field information from the LW110. When the electric fields indicate that there is a potential for lightning, the RA110 triggers visual and audible alarms that warn of the possible dangers.

The RA110 consists of an RA100 Remote Strobe and Siren Alarm, a CR800 datalogger, a power supply, communication device, and an ENC14/16 enclosure. Communication options include fiber, spread spectrum radio, and Internet. There are also several options for mounting the enclosure and the RA100 alarm system.

Benefits and Features

- SAE Class II LED beacons with 100,000 hour rated lifetime
- 120 dB siren
- *All clear* notices when lightning threat has passed
- Allows the alarm system to be located several miles from the LW110 Lightning Warning System
- Rugged construction
- Controlled by a Campbell Scientific CR800 datalogger
- Includes two stainless-steel brackets for mounting to a flat surface
- Optional pole-mount kit allows mounting to a pole with a 1.5-to-4 inch outside diameter
- 3.3 ft extension accessory allows mounting to a parapet wall
- Multiple RA110s can receive electric-field information from one LW110 Lightning Warning System
**Customizations**

The RA110 Remote Alarm System is customizable, allowing you to configure the station to your project’s specifications, while retaining turn-key functionality. The following are options and accessories available for the RA110:

**Communication Options**
- Ethernet/Wi-Fi
  - NL201 Network Link Interface
  - NL241 Wi-Fi Network Link Interface
- Fiber
  - FC100 Fiber Optic Converter
- Radio
  - RF407 Spread Spectrum Radio
  - RF451 900-MHz, 1-W Spread-Spectrum Radio

**Alarm Options**
- RA100 Strobe & Siren Alarm with pole mount
- RA100 Strobe & Siren Alarm with flat mount

**Power Supply Options**
- 84 Ah battery with 50 W Solar Panel
- 12 Ah battery with AC power
- 12 Ah battery with AC power and UL certification

**Mounting**
- Tripod
  - CM106B 7-to-10 ft Galvanized-Steel-Tubing Tripod
  - CM110 10-foot Stainless-Steel Instrument Tripod
- Pole
  - CM500 10-ft Galvanized Pole (2.4 inch OD) without j-bolt mount
  - CM505 8-ft Galvanized Pole (2.4 inch OD) with j-bolt mount
  - CM510 8-ft 304 Stainless Steel Pole (2.4 inch OD) with j-bolt mount
  - CM515 8-ft 316L Stainless Steel Pole (2.4 inch OD) with j-bolt mount

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**Example Configuration**

1. RA100 Strobe and Siren Alarm with Pole Mount
2. ENC14/16 Enclosure
3. CR800 Measurement and Control Datalogger
4. 12 Ah Battery with AC-to-DC Transformer
5. RF407 Spread Spectrum Radio
6. Stainless-Steel Pole