# ProLEC Basic INSTALLATION INSTRUCTIONS

*Lightning event counter*

ProLEC Basic is a basic lightning current sensor that detects and logs lightning discharges flowing through the down-conductor. It is capable of measuring and withstanding currents up to 100 kA (10/350 μs).

Installing the ProLEC Basic on the exterior of a building or structure provides users with vital information on the frequency, date, time, and atmospheric discharges affecting the structure. This enables timely repairs or preventative measures.

## Technical Data

| Electrical | |
|---|---|
| **ProLEC Basic Model** | **130 523** |
| Impulse Discharge Current [$I_{imp}$] | 100 kA |
| Minimum Impulse Discharge Current [$I_{imp\ min}$] | 1 kA |
| Maximum Impulse Discharge Current [$I_{imp\ max}$] | 100 kA |
| Maximum Events Logged | 999 |
| Power Supply | CR17335 lithium batteries Lifetime: up to four years |

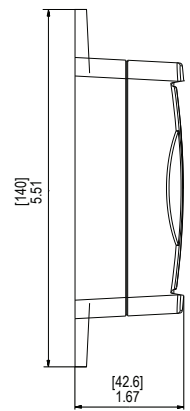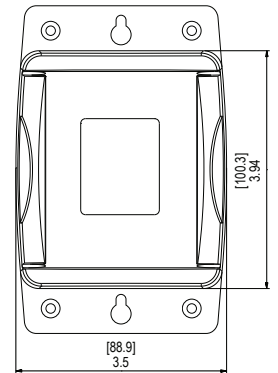| Mechanical | |
|---|---|
| Mounting Method | Direct on Down Conductor |
| Operating Temperature (°C) | -20° C to +60° C |
| Enclosure Material | UL 94 V-Z Polycarbonate |
| Environmental Ingress Protection (IP) Rating | IP 65 |
| Enclosure Dimension (L × W × D) | 5.51" × 3.5" × 1.68" [140 × 88.9 × 42.6 mm] |
| Weight | .97 lbs [440 g] |

**Installation**

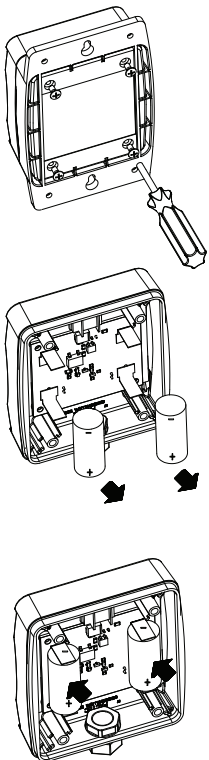Place the ProLEC Basic on the lightning down conductor.

**Dimensions** [mm] inches

### Replacing battery

### ProLEC Basic Use

The LCD screen is turned off by default to preserve energy. You can turn it on by pressing any button. The first screen displays the surge count (lower-left corner), the date (top row), and the time (middle row) of the last recorded surge. You can browse the surge events history by pressing the UP (↑) and DOWN (↓) keys.

To check the internal clock, start with the blank display and press OK. The last recorded event will become visible. After 1 second, press OK again. Pressing OK the second time will show the internal clock, which will be visible for 3 seconds. The accuracy of the internal clock should be checked once per year. If the clock time needs to be corrected, press OK one more time while viewing the status of the internal clock. To set the clock, press the OK button to move through the time levels and use the arrow keys to change the numbers. The number currently being set will blink. To save the new time, move through all the time levels by pressing OK until the last digit (upper right) is confirmed by pressing OK.

To clear the surge history, press SET when the internal clock is visible. Choose to clear the history by selecting YES.

WARNING! Once the data is cleared, it cannot be retrieved.

- BATTERY
- DATE
- TIME
- NO. OF SURGES

- DAY-MONTH-YEAR
- HOUR-MINUTE-SECOND