

Basic Functionality of the Strike Guard Lightning Detection Sensor



The Strike Guard Lightning Warning System is comprised of a self-powered Lightning Sensor, a Lightning Data Receiver (also referred to as "the LDR" or "the Receiver"), and a fiber-optic communications link.

The Strike Guard Lightning Detection Sensor

The Sensor monitors cloud and cloud-to-ground lightning within 20 miles and categorizes lightning threats by proximity:

Lightning within 20 Miles: CAUTION Lightning within 10 Miles: WARNING Lightning within 5 Miles: ALARM

No Lightning ALARMs events for 30 minutes: ALL-CLEAR

Patented optical signal processing and proprietary opticalcoincidence technology prevent false alarms.



- 1. Receives and processes the optical and radio emissions of lightning discharges within 20 miles of the Sensor.
- 2. Classifies lightning signals by estimated range to the discharge.
- 3. Rejects background noise.
- 4. Transmits serial data messages to the Lightning Data Receiver via a lightning- proof fiber-optic link.
- 5. Performs a periodic self-test of Sensor functions including battery charge level and transmits confidence messages to the Lightning Data Receiver to ensure that a healthy Sensor and viable communications link are available.



Installation Diagram: Strike Guard with Strike View Software and WAVE Siren Warning System

