

The Strike Guard total lightning detector and CS110 Electric Field Mill combine to classify lightning discharges within 20 miles and report electric field measurements to monitor overhead storm cell development. The dedicated lightning detector and field mill are integrated to display lightning threat levels based on customer-selected thresholds applied to data from both instruments.

Strike Guard with CS110 Electric Field Mill monitors cloud and cloud-to-ground lightning and the electric field within user-set parameters and provides contact-closure signaling at user-set thresholds.

The CS110 Electric Field Mill measures the vertical component of the atmospheric electric field at the Earth's surface. Atmospheric electric field data is useful for assessing the local lightning hazard, especially prior to the first, and after the last, lightning discharges in a storm.

The International Standard for Thunderstorm Warning Systems, IEC 62793:2016, classifies Strike Guard with CS110 Electric Field Mill as a Class A Detector capable of detecting thunderstorm evolution during all four phases of thunderstorm development. The European Standard for Protection Against Lightning - Thunderstorm Warning Systems, EN 50536, classifies Strike Guard with CS110 Electric Field Mill as a Class I Detector capable of detecting thunderstorm evolution during all four phases of thunderstorm development.

Data from the two sensors can trigger automatic warning systems and help personnel make evacuation and shutdown decisions.



Strike Guard with CS110 Electric Field Mill

STRIKE GUARD WITH CS110 ELECTRIC FIELD MILL DELIVERS:

- Fully automatic alarm triggering with user-set range categories and electric field magnitude thresholds
- 20 mile lightning detection range
- Programmable electric field thresholds determine CAUTION, WARNING, ALARM conditions
- Periodic sensor health and communication self-tests
- Software displays which sensor triggers CAUTION, WARNING, ALARM conditions
- Durable lightning-proof fiber-optic communication with connector-less technology
- Lightning Data Receiver with integral battery-back up
- Strike View with CS110 Software factory-installed on Wxline flat-panel touchscreen PC
- Flexible sensor mounting options

The Strike Guard Lightning Sensor & CS110 Electric Field Mill are both proven and powerful as standalone systems; together, they form the most capable and advanced single-station lightning warning system.

The Wxline Personal Computer is factory-installed into a Wxline Equipment Indoor Bulkhead (WxEIB) to provide a fully-integrated base installation of the Strike Guard Lightning Data Receiver and Strike View with CS110 Software.



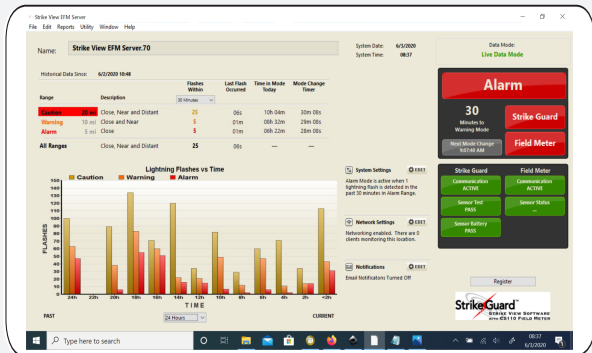
Wxline Equipment Indoor Bulkhead with PC

The Wxline Equipment Indoor Bulkhead with PC offers:

- Turnkey, factory-programmed base station with Windows 10 and Strike View with CS110 Software installed and registered
- Touchscreen Wxline PC for dedicated oversight of Strike View with CS110 Software
- Strike Guard Lightning Data Receiver with audible and visual alarm and system status indicators
- Full battery back-up (200 hr typical)
- Relays to interface with the wireless WAVE Siren System to activate remote horns and strobes

Strike View with CS110 Software offers:

- Automatic notifications via text message, email, and software
- Strike View with CS110 Server Software and Strike View with CS110 Client Software operate across a LAN for multiple access points
- Exclusive countdown timer from last lightning ALARM threat reported
- Lightning histograms to monitor storm progression



Strike View with CS110 Software

STRIKE GUARD LIGHTNING DATA RECEIVER SPECIFICATIONS:

INSTALLATION: Wall-mountable with size 10 screws.
 ENCLOSURE: Type 304 stainless steel.
 BATTERY: User-replaceable alkaline C-cells. Low battery indicator.
 COMMUNICATION: PMMA duplex fiber optic cable.
 EXTERNAL CONTROL: 2 relays, single pole, double throw. 1 A at 120 VAC, UL, CSA approved.
 LIGHTNING ALARM RANGE SETTINGS: <5 miles, <10 miles or <20 miles.
 SETTINGS: Lightning alarm range, alarm timeout, and lightning counts for contact-closure signaling.
 AUDIBLE NOTIFICATION: Alarm Mode, Lightning Flash.
 EXTERNAL POWER: In-line switching power supply. Input 100-240 VAC, 50/60 Hz. UL, VDE, FCC, CSA, CE.

CS110 ELECTRIC FIELD MILL SPECIFICATIONS:

CE COMPLIANCE STANDARDS TO WHICH COMFORMITY IS DECLARED: BS EN61326:2002.
 CALIBRATIONS: NIST Traceable calibration certificate included.
 LIGHTNING PROTECTION: Multi-stage transient protection on all external interfaces.
 POWER REQUIREMENT: 11 to 16 VDC.
 BAUD RATES: Selectable from 300 to 115.2k bps.
 SAMPLE (MEASUREMENT) RATE: Programmable sample rate up to 5 samples per second; variable rates possible.
 ASCII PROTOCOL: One start bit, one stop bit, eight data bits, no parity.
 COMMUNICATIONS PROTOCOLS: Duplex fiber optic cable.
 OPERATING RELATIVE HUMIDITY: 0 to 100% RH.
 MOUNTING: Vertical pipe with outer diameter of 0.75 in to 2.5 in.
 DIMENSIONS: 6 x 6 x 17 in.
 WEIGHT: 9 lb.

WXLINE EQUIPMENT INDOOR BULKHEAD WITH PC SPECIFICATIONS:

ENCLOSURE: NEMA 4X Polycarbonate.
 ELECTRICAL PROTECTION: 120 VAC or 240 surge arrester (specify). RF PROTECTION: PolyPhaser RF surge arrester.
 POWER SUPPLY: DIN rail mounted, 100-240 VAC; Output: 15 VDC, 4.0A
 PC INTERFACE: 1024 X 768 high res and 450 nits high brightness.
 SAFETY APPROVALS: UL, TUV, CE
 DIMENSIONS: 20 in X 16 in X 8 in.
 WEIGHT: 30 lbs.

STRIKE GUARD SENSOR SPECIFICATIONS:

INSTALLATION: Materials and hardware included for roof-mount.
 SITE REQUIREMENTS: Minimal siting restrictions.
 ENCLOSURE: NEMA 4X.
 COMMUNICATION: PMMA duplex fiber optic cable
 BATTERY: Lithium primary cells, 4-year life minimum.

STRIKE VIEW WITH CS110 SOFTWARE SPECIFICATIONS:

COMPUTER REQUIREMENTS: 16GB HD; 1GM RAM; 1GHz processor. PLATFORM: Microsoft Windows® 10. INTERFACE: Strike Guard RS-232 to Fiber-optic Converter to PC's 9-pin serial or USB port.
 FORMAT: Download or thumb drive.



Call us today to discuss your specific application needs and to locate a representative in your area.

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Specifications are subject to change.