

WXLINE

Product Catalog



423 South Olsen Avenue • Tucson, AZ • 85719 • USA

Tel: +1.520.615.9999 • www.wxline.com



Proven Track Record

In business since 2001, Wxline is the leader in the design and manufacture of state-of-the-art systems which address the most demanding lightning safety and equipment protection needs.

Critical safety equipment must function reliably when needed most. Wxline designs systems that minimize the potential for human error and function in severe weather and a lightning environment - immune to power outages, loss of internet, loss of cell phone service, and loss of personal computers.

DESIGN PHILOSOPHIES AND MANUFACTURING PRINCIPLES

- Automate all system functions
- Harden all electrical and mechanical materials for maximum durability and reliability
- Put control in the hands of the user
- Build upon prior designs for uniformity
- Integrate all systems for inter-connectivity
- Simplify controls to minimize training needs



Section | Contents

Product Line

- 1 | Lightning Detection Systems
- 2 | Strike View Software
- 3 | Warning Systems
- 4 | Wxline Equipment Indoor Bulkheads (WxEIB)
- 5 | Active Lightning Protection (CAPB)
- 6 | Wxline Specialty Products (Wx-IT and ACI)
- 7 | Strike Guard with CS110 Electric Field Mill
- 8 | Wxline Service

System Design Examples

- 9 | System Design: Golf Course
- 10 | System Design: Splash Pad
- 11 | System Design: Mine
- 12 | System Design: Aviation
- 13 | System Design: Parks & Rec
- 14 | System Design: Industrial
- 15 | System Design: School / University / Campus
- 16 | System Design: Resort / Hotel

About Wxline

- 17 | Custom Lightning Safety Posters
- 18 | Additional Parts and Ordering Information
- 19 | Wxline Factory Operations

Lightning Detection Systems

Designed for critical applications, Strike Guard monitors cloud and cloud-to-ground lightning and provides contact-closure signaling at user-set lightning activity thresholds. Patented optical signal processing and proprietary optical-coincidence technology prevent false alarms.

Strike Guard enables automated activation of warning systems for human safety, and initiation of data backup and generator start-up, while also shutting down and/or isolating electrical systems for the duration of the electrical storm.



- Automatic alarm triggering with user-set range categories
- No false alarms, patented technology
- Sensor and communication self-test
- Battery-powered with 5-year minimum battery lifespan, allowing for easy installation and electrical isolation
- NEMA 4X Sensor enclosure
- Fiber-Optic communication from the Sensor allows for a completely isolated integration; no electrical conductors enter the structure



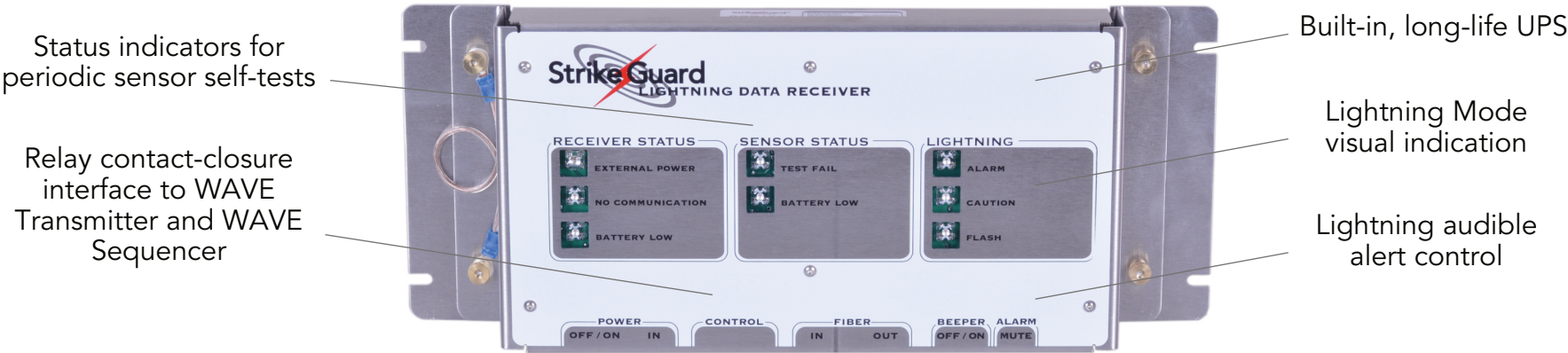
Lightning within 20 miles:
CAUTION

Lightning within 10 miles:
WARNING

Lightning within 5 miles:
ALARM

No Lightning ALARM events for 30 minutes:
ALL-CLEAR

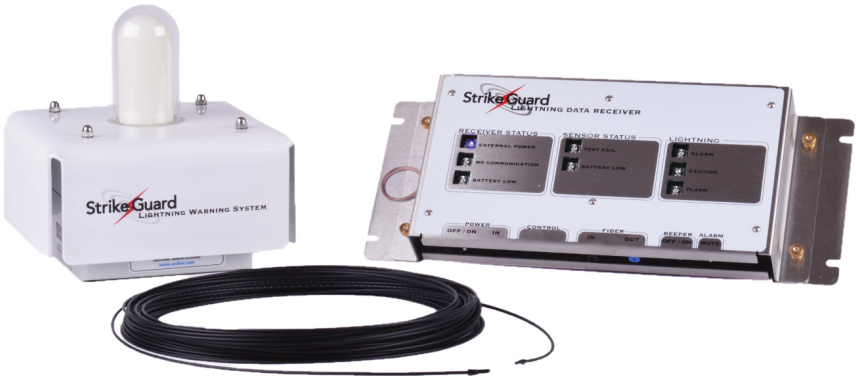
The Strike Guard Lightning Data Receiver (LDR) is easy to install in an office environment, and easy to set-up and use.



Strike Guard Lightning Warning System

Part # SG001

Strike Guard Sensor, mounting hardware, and tripod (shown on page at left); Lightning Data Receiver with alarms, relays, battery back-up and PC-ready output; 30-meter simplex fiber-optic cable and USB memory stick with User's Guides (not shown).



Strike Guard Accessories	Part #	Description
Strike Guard Receiver Equipment Indoor Bulkhead	WxEIB-SG	Strike Guard Lightning Data Receiver is mounted in a 16 x 14 x 8 inch enclosure with clear door. See Section 4 for details.
Strike Guard Receiver Equipment Indoor Bulkhead with PC	Wx-PC-SG	Mini WxEIB with Wxline PC mounted on door for Strike View Software oversight. Pre-assembled with the latest Microsoft Windows Operating System and Strike View Software installed and registered for plug-and-play functionality. See Section 4 for details.
Strike Guard with CS110 Electric Field Mill	SG-CS110	The CS110 Electric Field Mill measures electric field fluctuations associated with local thunderstorm development and alerts users to the increased likelihood of lightning strikes. CS110 is combined with Strike Guard to create a complete thunderstorm-threat measurement and analysis system. See Section 7 for details.

Strike View Software

Download Strike View Server Software and connect the computer and Strike Guard Lightning Data Receiver for lightning data displays, email and text message notifications, audible and visual lightning alarms, and lightning data logging.

Strike View helps users analyze storm progression, categorize lightning information, and estimate the time to resume operations.



Strike View Software



Email and Text Message



Caution

11

Minutes to
No Lightning Detected

Next Mode Change
9:49:06 AM

Lightning within 20 miles:
CAUTION



Warning

29

Minutes to
Caution Mode

Next Mode Change
10:01:55 AM

Lightning within 10 miles:
WARNING



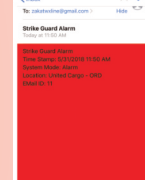
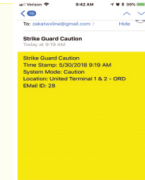
Alarm

29

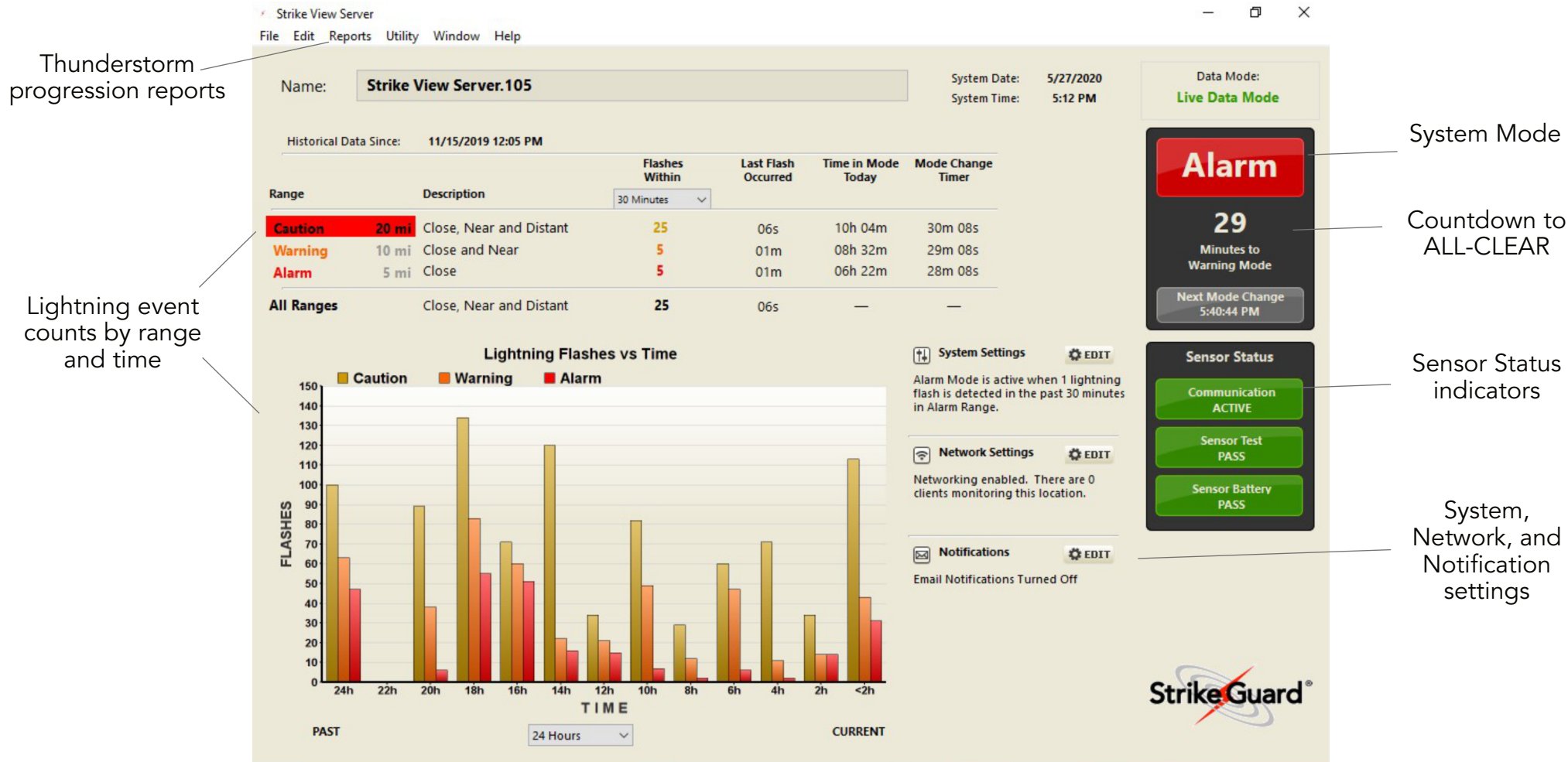
Minutes to
Warning Mode

Next Mode Change
10:00:33 AM

Lightning within 5 miles:
ALARM



No Lightning ALARM events for 30 minutes:
ALL-CLEAR



Strike View Software Licenses	Part #	Description
Strike View Server Software	SG002	Strike View Server Software
Strike View Client Software	SG002-NET	Connect an additional computer to Strike View Server over LAN
Additional Strike View Clients	SG002- NETREG	Each additional computer operating Strike View Software across a LAN
Strike View Client Site License	SG002-SITE	Up to ten Strike View Clients operating across a LAN. Requires purchase of SG002 and SG002-NET
Multiple Sensor Network	MSN	Links multiple Strike Guard Servers across a LAN. Requires purchase of SG002-SITE for each Strike Guard in network
Strike Guard with CS110 Software	SG002-CS110	All Strike View Software Packages are also offered for Strike Guard with CS110 Electric Field Mill

Warning Systems

Automatically alert personnel to Strike Guard CAUTIONS, WARNINGS, or ALARMS with WAVE Siren Stations. Voice-coil, folded exponential horns provide loud audible alerts while high-intensity xenon strobes provide persistent visual alerts.



- Wireless activation from up to 2 miles away
- Programmable hours of operation
- Multi-stage strobe and audible notification
- Strobe-less and Strobe-only options available
- Many strobe colors available
- AC-powered or Solar-powered options available
- Adjustable horn volume

Lightning within 5 miles: **ALARM**

No lightning ALARM events for 30 minutes: **ALL-CLEAR**

WAVE Transmitter

Part Number WAVE-TR01

The WAVE Transmitter activates WAVE Siren Stations and WAVE Sequencers by sending coded radio frequency messages to an unlimited number of units within a 2-mile radius. The Transmitter is an essential component to the WAVE System and is necessary to activate and control remote equipment.



WAVE Siren Stations	Part #	Description
Siren Station with Horn	WAVE-SS01	Each Station can be equipped with up to four horns (Part# WAVE-SS02 for two horns, etc)
Siren Stations with Horn and Strobe	WAVE-SS01-ST	A Siren Station can be equipped with up to four horns and one strobe
Solar-Powered Stations w/ Horn	WAVE-SS01-SO	Solar Power eliminates the need for AC power at Siren Station locations
Solar-Powered Stations w/ Horn + Strobe	WAVE-SS01-SO-ST	Wxline's 55-WATT Solar panels can power fully-equipped Siren Stations
Strobe-Only	WAVE-SS0S	Strobe-only

Options	Description
Solar Power	55-Watt Solar Panel eliminates the need for AC power. Includes mounting hardware and upgraded battery.
Strobe	Add a high-intensity Strobe to any Siren Station. Strobe illuminates during lightning ALARM mode until alarm expires.
Light Stack	Tri-colored light stack illuminates to show Strike Guard System Mode. CAUTION light indicates lightning within 20 miles; ALARM light indicates lightning within 10 or 5 miles; ALL-CLEAR light indicates no lightning events have occurred within past 30 minutes.

Wxline Equipment Indoor Bulkheads

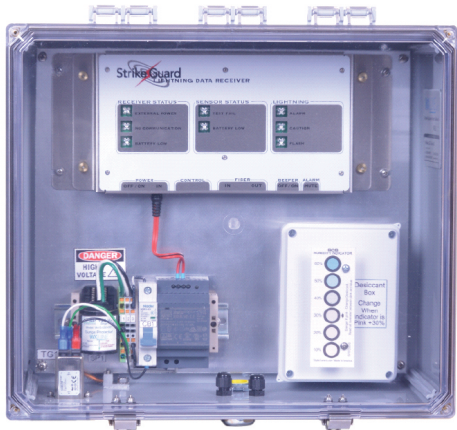
Protect your equipment and streamline installations by having equipment factory-installed in a Wxline Equipment Indoor Bulkhead (WxEIB) or outdoor Solar Bulkhead.

Products that can be installed in bulkheads	Part #	Description
Strike Guard Lightning Data Receiver	SG-001	Lightning Data Receiver is factory-installed in WxEIB
WAVE Transmitter	WAVE-TR01	WAVE Transmitter is factory-installed in WxEIB

Strike Guard Receiver Wxline Equipment Indoor Bulkhead

Part #WxEIB-SG

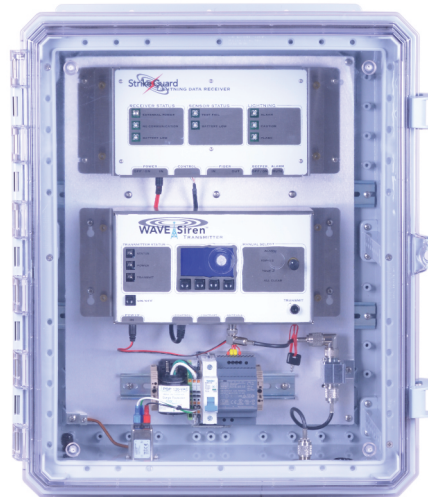
Strike Guard Lightning Data Receiver is mounted in 17 x 14 x 10 inch poly-carbonate enclosure with complete lightning protection for incoming conductors and power supply. Pre-assembled for indoor mount.



Wxline Equipment Indoor Bulkhead

Part # WxEIB

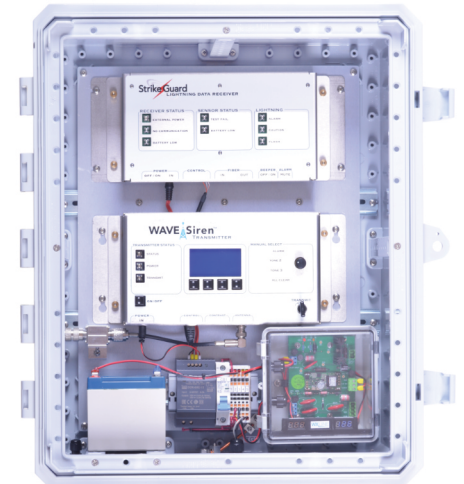
Strike Guard Lightning Data Receiver & WAVE Transmitter assembled and mounted in a 20 x 16 x 10 inch poly-carbonate enclosure with complete lightning protection for incoming conductors and power supply. Pre-assembled for indoor mount.



Wxline Equipment Solar Bulkhead

Part # WxEsb

Strike Guard Lightning Data Receiver & WAVE Transmitter assembled and mounted in a 20 x 16 x 10 inch poly-carbonate enclosure designed for solar power with battery back-up. Includes complete lightning protection for incoming conductors and power supply.



WxEIBs with PC

An industrial touchscreen PC is added to the WxEIB door for dedicated Strike View Software oversight. The WxEIB and Wxline PC are designed to function in a lightning environment --- even with loss of internet and commercial power. Bulkhead connectors include USB, HDMI, Ethernet, and power.

**Plug-and-play
functionality!**

- Products are factory-installed & programmed for your system design
- Wxline PC comes with the latest Windows and Strike View Software registered and installed

Strike Guard Receiver Wxline Equipment Indoor Bulkhead with PC Part # Wx-PC-SG

Strike Guard Receiver WxEIB with Wxline PC mounted on door for dedicated Strike View Software oversight. Includes complete lightning protection for incoming conductors and power supply. Pre-assembled with the latest Microsoft Windows software and Strike View Software installed on PC for turnkey use.



Wxline Equipment Indoor Bulkhead with PC Part # WxEIB-PC

Strike Guard Lightning Data Receiver and WAVE Transmitter are installed in WxEIB with Wxline PC mounted on door for Strike View Software oversight. Includes complete lightning protection for incoming conductors and power supply. Pre-assembled with the latest Microsoft Windows and Strike View Software installed on PC for turnkey use.



Active Lightning Protection (CAPB)

The ultimate protection of electrical equipment from lightning is the disconnection of the equipment from conductive electrical systems. The WAVE Sequencer, typically installed in a Critical Asset Protection Bulkhead (CAPB), automatically initiates a programmable shutdown process to place critical equipment in a protected state upon lightning ALARM. The protected asset is automatically reconnected and powered back on upon the ALL-CLEAR.



No Lightning ALARM events for 30 minutes: **ALL-CLEAR**

Protected Asset: **CONNECTED**

WAVE Sequencer

Part # WAVE-PS01

The WAVE Sequencer receives RF Transmitter messages and provides three outputs to control relays/contactors appropriate for managing the loads represented by pumps, irrigation systems, and other critical equipment. Includes 3-foot antenna, radio receiver, battery backup, AC power supply and 25 ft. antenna cable with stainless steel antenna mount.

WAVE Sequencer Direct Connect

Part # WAVE-PS01-DC

Provides direct connect interface to the Strike Guard Lightning Data Receiver main or auxiliary relay and provides three outputs to control relays/contactors appropriate for managing the loads represented by pumps, irrigation systems, and other critical equipment. Includes Strike Guard interface cable, battery backup, and AC power supply.

WAVE Sequencers can be installed on their own or within a Critical Asset Protection Bulkhead (CAPB), such as the CAPB-PUMP shown below. CAPBs are pre-assembled as lightning protection bulkheads with metal-enclosed switchgear.

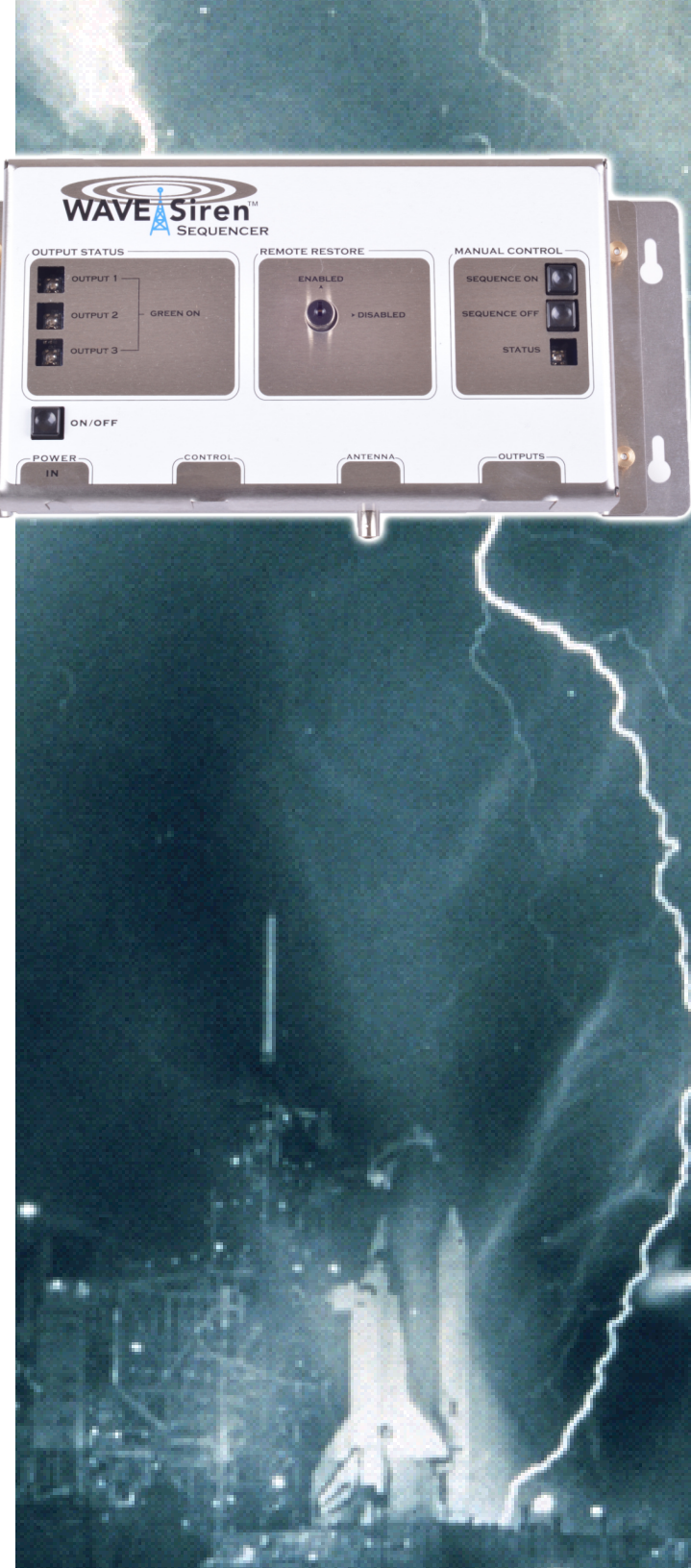
Pump Station Critical Asset Protection Bulkhead

Part # CAPB-PUMP

WAVE Sequencer-based remote wireless or local Strike Guard direct (wired) connect for contact-closure relay signaling to initiate automated lightning ALARM shut-down/start-up of irrigation pump stations.

Add STROBE-CAPB for visual indication of SEQUENCE OFF condition.

See next page for more information.



Critical Asset Protection Bulkheads

Implement automated active lightning protection-by-isolation of industrial control systems and central pump stations by combining best-engineering-practice of Passive Lightning Protection with Wxline's fully-automatic Active Lightning Protection bulkheads. CAPB capabilities include:

- Selective isolation - disconnects selected conductors from the critical asset.
- Selective grounding - grounds disconnected conductors.
- Selective shutdown - disconnects power conductors via independent circuits with programmable delays to provide the ultimate defense against over-voltages, electrical over-stress and lightning surge currents.

The Active Lightning Protection System Design and Build Process

1 Determine what needs to be protected
Irrigation Control Interfaces
Pump Stations
Central Irrigation Computers
Weather Stations

2 Design to fulfill customer requirements
Integrate protective equipment into irrigation design
Determine timed shutdown and startup sequence
Review documentation; get customer sign-off

3 Custom build and manufacturing
Construction to specification of Purchase Order
Documentation including diagrams, schematics, & manuals
Full factory test and quality control checks



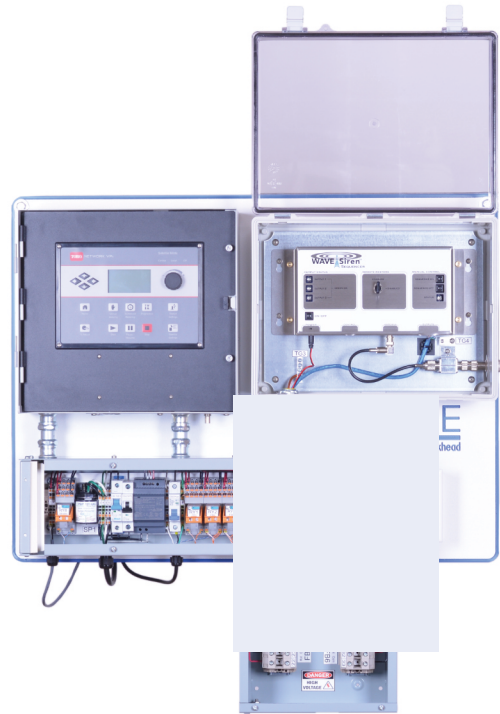
Critical Asset Protection Bulkhead Central

Part # CAPB-CENTRAL

Automatic lightning protection-by-isolation and/or grounding of field conductors connected to central irrigation controller computer and related hardware.

Features a WAVE Sequencer (included) with fully-assembled-and-tested relay isolation bank, AC Power secondary surge suppressor, RF surge suppressor, and AC over-current protection appropriate for Satellite or Decoder systems.

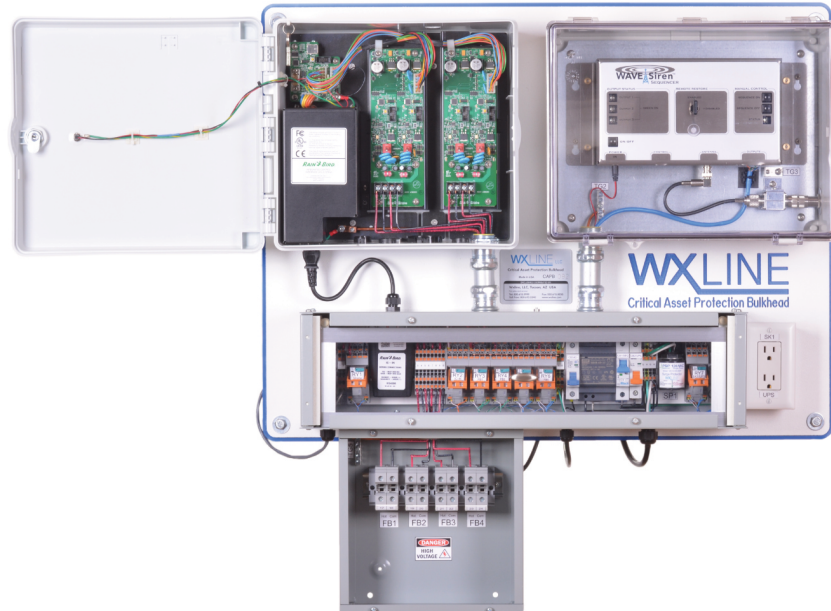
Designed and completely pre-assembled as a lightning protection bulkhead with metal-enclosed switchgear.



CAPB-CENTRAL: Open



CAPB-CENTRAL: Closed



CAPB-CENTRAL: Open



CAPB-CENTRAL: Closed

Add a STROBE for visual indication of ON/OFF condition



Part # STROBE-CAPB

Isolation Transformer

The Wxline Isolation Transformer (Wx-IT) is a complete electrical subsystem that creates a separate local electrical service at a location remote from the building service entrance. The Wx-IT provides significant hardening of a central computer and related accessories from lightning damage.

Wxline Isolation Transformer

Part # Wx-IT

Fully metal-enclosed Isolation Transformer provides a separately derived system for irrigation components and related accessories.

Includes provision of AC power-in options, multiple output circuits with over-current protection, input AC power surge suppression, and ground lug for bonding to the ground electrode that is used for irrigation equipment protection.



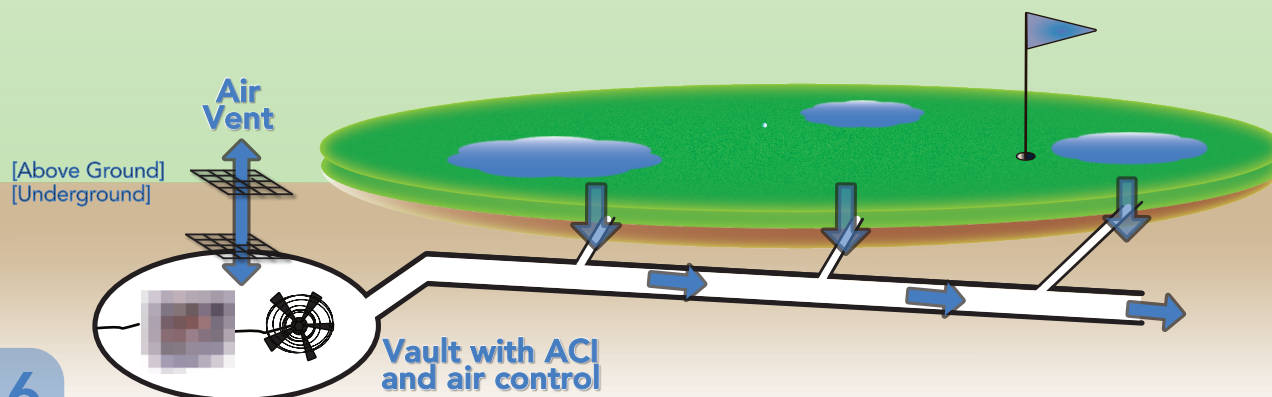
Wx-IT: Interior Electronics



Wx-IT: Closed

Air Connect Interface

Wxline integrates field sensors (input and output) and the Air Connect Interface to enable Grounds teams to control precision air functions using the irrigation system infrastructure. The ACI enables irrigation software to control remote equipment such as pumps, fans, water flow, and heat.



Air Connect Interface

Part # Wx-ACI

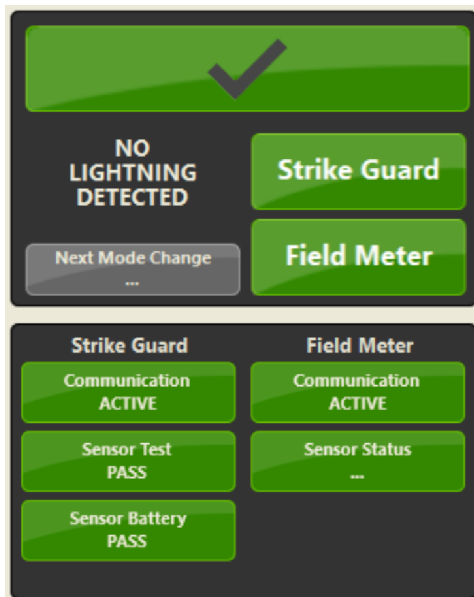
Interface between Irrigation system controls and the Air Control System beneath greens areas of a golf course.



Strike Guard with CS110 Electric Field Mill

The CS110 Electric Field Mill measures electric field fluctuations associated with local thunderstorm development and alerts users to the increased likelihood of lightning strikes. CS110 is combined with Strike Guard to create a complete lightning-threat measurement and analysis system.

Data from the two sensors can trigger WAVE Siren warning equipment and help personnel make evacuation and shutdown decisions.



Strike View with CS110 Software shows the status of both the Strike Guard Sensor and CS110 Electric Field Mill.

Strike Guard with CS110 Electric Field Mill

Part # SG-CS110

Strike Guard Sensor, mounting hardware, and tripod, Lightning Data Receiver with alarms, relays, battery back-up and PC-ready output, 30-meter simplex fiber-optic cable, and USB memory stick with User's Guides.

CS110 Electric Field Mill measures electric field fluctuations associated with local thunderstorm development and alerts users to the increased likelihood of lightning strikes.

The two sensors combine to form a complete thunderstorm measurement and analysis system.



Lightning within 5 miles, or electromagnetic field levels rise above user-set threshold:
ALARM

No lightning ALARM events for 30 minutes and electromagnetic field drops below user-set threshold for 30 minutes:
ALL-CLEAR

Wxline Service

Wxline warrants that the products it distributes and sells will be free from defects in materials and workmanship for a period of one year from the date of receipt by the end user. Extended Warranties and Advance Exchange Agreements are available for Wxline products.

Wxline Service Terms & Conditions:

- The equipment being returned must be serviceable to qualify for Advance Exchange.
- Modified or abused equipment is ineligible for Advance Exchange or Factory Service.
- Additional charges may apply based on condition of returned equipment.

Extended Warranty

An Extended Warranty Advance Exchange lengthens Wxline's standard 1-year Factory Warranty to 3 years.

When warranty-covered equipment needs to be repaired, a customer may initiate an Advance Exchange.

To initiate an Advance Exchange, contact Wxline. Wxline will ship the replacement along with a return label. The old equipment is unplugged and the new equipment is installed immediately to minimize downtime. The old equipment is shipped back to Wxline.

System	Wxline Products	Extended Warranty Advance Exchange Part #
Strike Guard	Strike Guard Sensor; Receiver	SG003
WAVE Transmitter	WAVE Transmitter	WAVE-TR-EWAE
WAVE Siren	WAVE Siren Station	WAVE-SS-EWAE
WAVE Sequencer	WAVE Sequencer	WAVE-PS01-EWAE
Wxline PC	Wxline PC & Monitor	Wx-PC-EWAE

Advance Exchange

An Advance Exchange may be purchased at any time so long as the Wxline Service Terms and Conditions are met.

An Advance Exchange enables the owner to exchange old equipment for equipment of the latest factory standard.

When the customer decides it is time to swap old equipment out, Wxline will ship the new equipment along with a box with return label. Equipment is swapped on-site to minimize downtime. Old equipment is shipped back to Wxline.

Factory Service

Basic Factory Service includes minor repairs. Additional charges may apply based on condition of equipment.

All Strike Guard factory service work includes upgrades to current software and hardware standards.

To minimize downtime, please notify Wxline prior to sending equipment in need of service to allow the Wxline Service Department to schedule the repair. Provide detailed information regarding the nature of system problems when contacting Wxline.

Advance Exchange

Part

SG-AE

WAVE-TR-AE

WAVE-SS-AE

Contact Wxline

Contact Wxline

Factory Service

Part

SG-SVC

WAVE-TR-SVC

WAVE-SS-SVC

WAVE-PS-SVC

Contact Wxline

System Design: Golf Course

Lightning Detection, Warning, and Protection

A complete lightning detection, warning, and protection system detects lightning threats, warns humans of the approaching danger, and protects critical assets from lightning-induced surge currents.

As shown:

- **Strike Guard Lightning Detection System (Section 1)**
Detects lightning threats and categorizes threats by proximity.
- **Wxline Equipment Indoor Bulkhead with PC (Section 4)**
Provides reports & alerts; activates WAVE equipment upon ALARM.
- **4 WAVE Siren Stations Dual with Strobes (Section 3)**
Horns sound and strobes flash to alert humans to the lightning threat.
- **WAVE Siren Station Strobe Only (Section 3)**
Strobe flashes at the resort pool to alert humans to the lightning threat.
- **Critical Asset Protection Bulkhead Central (Section 5)**
Power down irrigation systems to isolate vulnerable electrical components during local thunderstorms.





Maintenance Building:
Strike Guard Sensor, WxEIB with PC, Siren 1



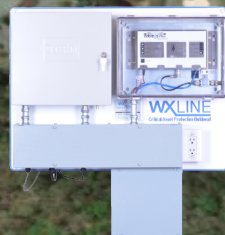
Front 9:
Siren 2



Range:
Siren 3



Back 9:
Siren 4



Central Irrigation Computer:
CAPB-CENTRAL



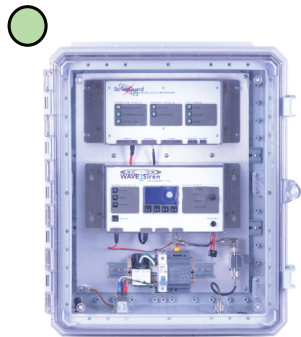
System Design: Splash Pad

Lightning Detection & Pump Shutdown



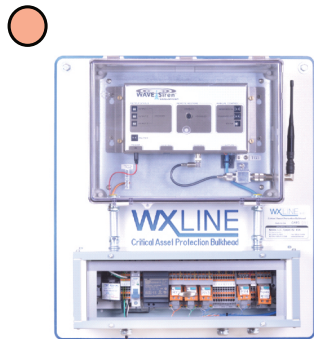
Strike Guard Lightning Detection System (Section 1)

Detects lightning threats and categorizes threats by proximity.



Wxline Equipment Indoor Bulkhead with WAVE Transmitter (Section 4)

Protects the Lightning Data Receiver and WAVE Transmitter; activates the Splash Pad CAPB and WAVE Siren Station.



Splash Pad Critical Asset Protection Bulkhead (Section 5)

Located in the pump house, the Splash Pad CAPB automatically powers down pumps when lightning is detected in ALARM range.

Splash Pad visitors should vacate the facility after water stops flowing and horns sound.



WAVE Siren Station Dual with Strobe (Section 3)

Horns sound and strobes flash to alert humans to the lightning threat.

State-of-the-art
Splash Pad
Protection

Splash Pad Critical Asset Protection Bulkhead

Part # CAPB-SPAD

Strike Guard Lightning Data Receiver to WAVE Sequencer Direct-Connect with contact-closure relay signaling. Delivers automated shut-down and start-up of splash pad pumps upon lightning ALARM. Power source disconnection/reconnection also provides splash pad equipment protection-by-isolation.

Splash Pad Protection Package

Strike Guard System
WxEIB with WAVE Transmitter
Splash Pad CAPB
WAVE Siren Station with Strobe



Explosive materials
warrant special handling in
a lightning environment!

Blasting crews may require
additional warning time to
secure explosives in the
hole and in the magazine.

System Design: Mine

Lightning Detection and Early Warning



Strike Guard Lightning Detection System (Section 1)

Detects lightning threats and categorizes threats by proximity.



Wxline Equipment Solar Bulkhead (Section 4)

Provides environmental and electrical protection of the Lightning Data Receiver and WAVE Transmitter in the field; WAVE Transmitter automatically activates all WAVE Siren Stations upon lightning ALARM.



WAVE Siren Stations with Solar and Strobe (Section 3)

Located strategically in the working areas of an open pit mine, WAVE Siren Stations alert personnel to seek shelter from the lightning threat.

For the ultimate lightning detection and prediction system, add a CS110 Electric Field Mill (Section 7).

Strike Guard detects lightning threats and categorizes events by proximity; CS110 measures fluctuations in the electric field and alerts users to the increased likelihood of lightning events.



Mine Lightning Warning Package

Strike Guard Lightning Warning System
Wxline Equipment Solar Bulkhead
Solar-Powered WAVE Siren Stations

System Design: Military / Aviation

Lightning Detection and Early Warning

Strike Guard Lightning Detection System (Section 1)

Detects lightning threats and categorizes threats by proximity.



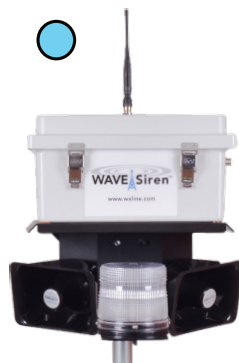
Wxline Equipment Indoor Bulkhead with PC (Section 4)

Located in the hangar, the WxEIB-PC provides thunderstorm progression reporting & alerting, and automatically activates the WAVE Siren Station upon lightning ALARM.



WAVE Siren Station with Strobe (Section 3)

Horns sound and strobes flash to alert humans to the lightning threat.



For the ultimate lightning detection and prediction system, add a CS110 Electric Field Mill (Section 7).

Strike Guard detects lightning threats and categorizes events by proximity; CS110 measures fluctuations in the electric field and alerts users to the increased likelihood of lightning events.





System Design: Parks & Rec

Lightning Detection and Early Warning

This Park District utilizes two Strike Guard Systems because their Parks are spread across a large area. Both Strike Guard Systems are accompanied by a WxEIB-PC with WAVE Transmitters which activate remote WAVE Siren Stations.

2 Strike Guard Lightning Detection Systems (Section 1)

One System controls the WAVE Siren Stations to the left of Town Square (Birchwood Sensor); one System controls the WAVE Siren Stations to the right of Town Square (Eagle Sensor).



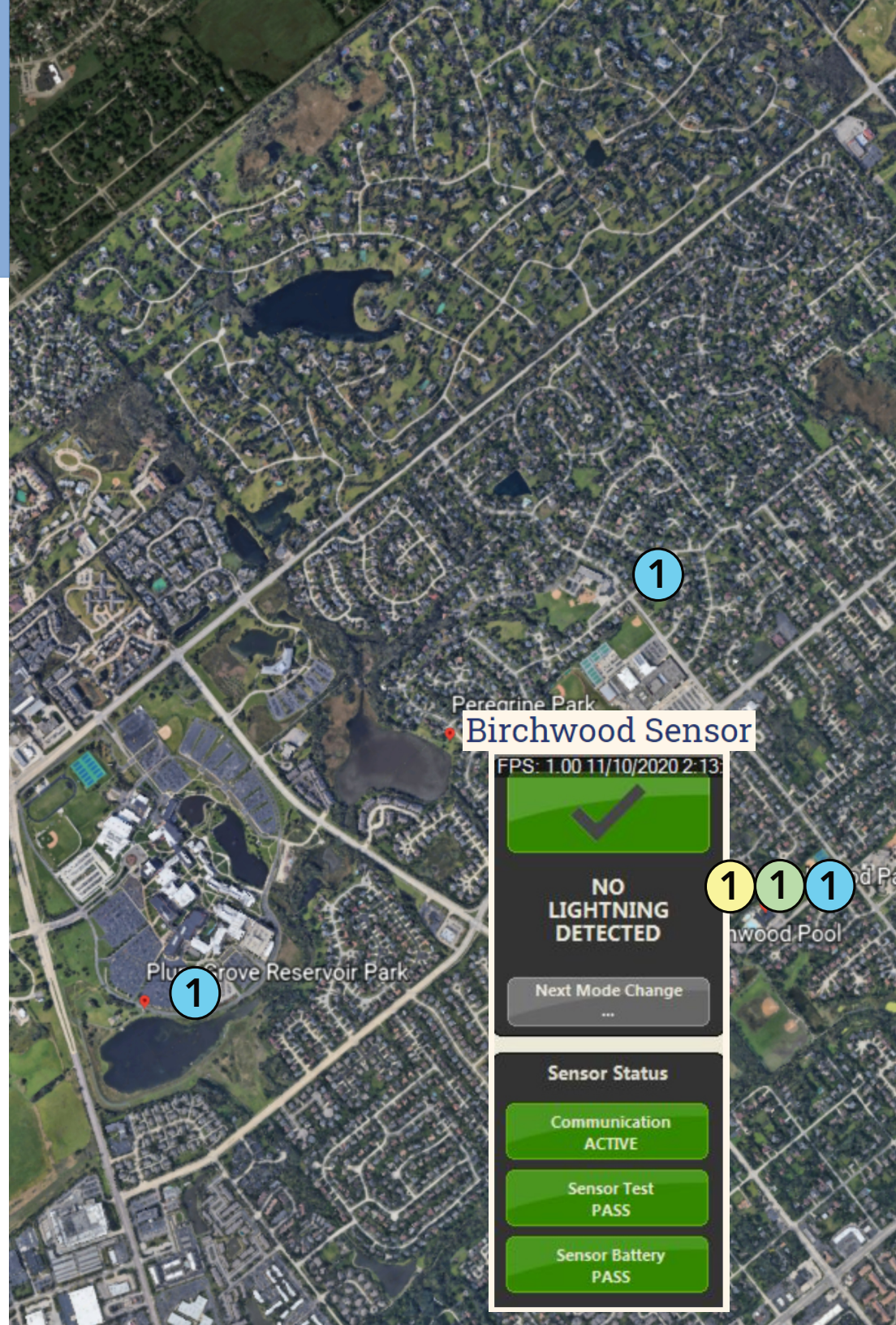
2 Wxline Equipment Indoor Bulkheads with PC (Section 4)

Located with the Strike Guard Systems, the WxEIB-PC provides thunderstorm progression reporting & alerting, and automatically activates WAVE Siren Stations upon lightning ALARM.



14 WAVE Siren Stations with Strobe (Section 3)

Horns sound and strobes flash to alert humans to the lightning threat.



Birchwood Sensor

FPS: 1.00 11/10/2020 2:13



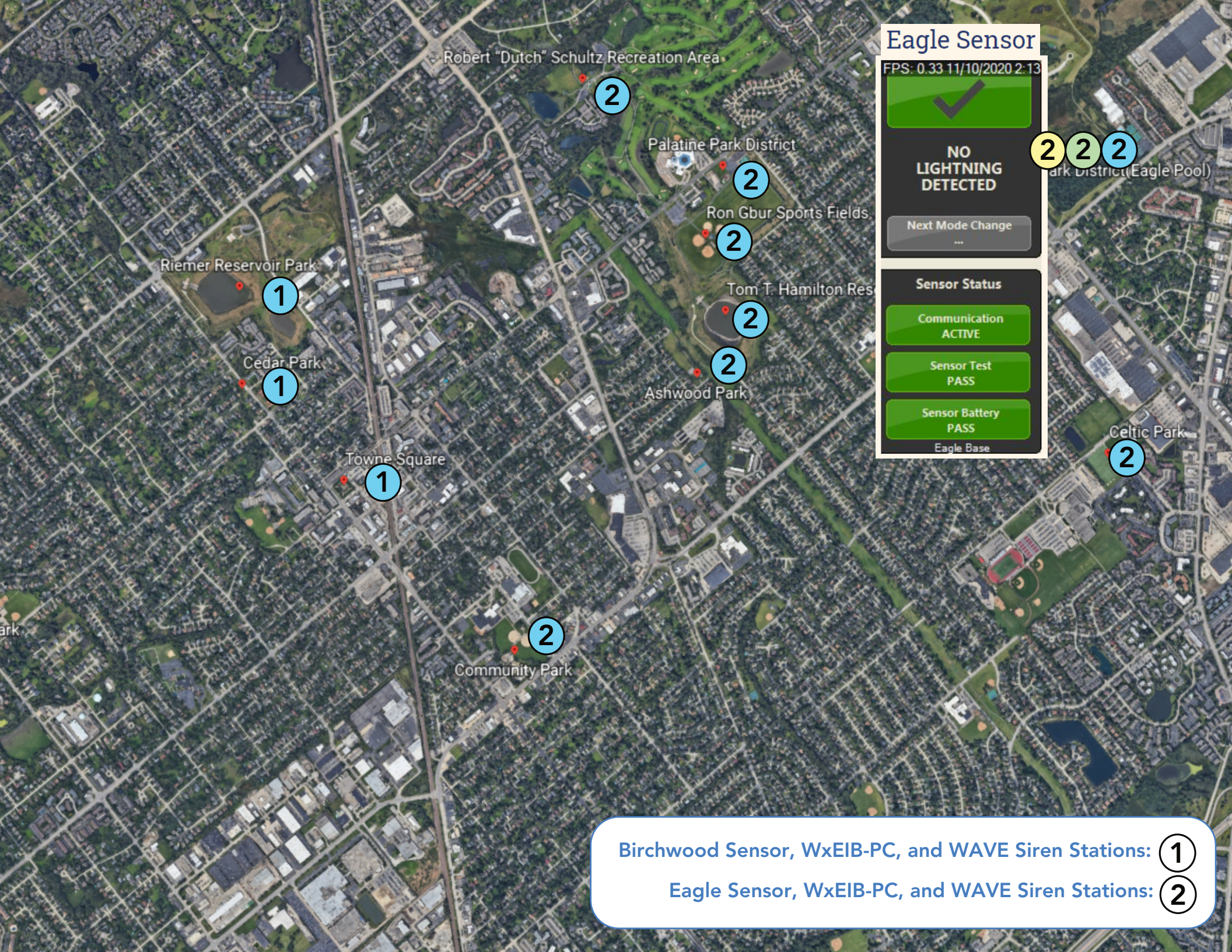
Sensor Status

Communication
ACTIVE

Sensor Test
PASS

Sensor Battery
PASS





Eagle Sensor

FPS: 0.33 11/10/2020 2:13



**NO
LIGHTNING
DETECTED**

Next Mode Change
...

Sensor Status

Communication
ACTIVE

Sensor Test
PASS

Sensor Battery
PASS

Eagle Base

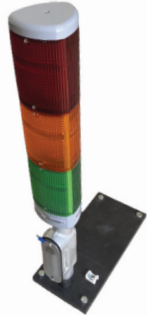
Birchwood Sensor, WxEIB-PC, and WAVE Siren Stations: ①

Eagle Sensor, WxEIB-PC, and WAVE Siren Stations: ②

System Design: Commercial/Industrial (Oil Rig)

Lightning Detection and Early Warning

Add a Tri-Color
Strobe Light Stack!



Industrial Lightning Warning Package

Strike Guard System
WxEIB-PC with WAVE Transmitter
Wave Siren Station Dual w/ Strobe

Strike Guard Lightning Detection System (Section 1)

Detects lightning threats and
categorizes threats by proximity.



Wxline Equipment Indoor Bulkhead with PC and WAVE Transmitter (Section 4)

Located in the control room, the
WxEIB-PC provides thunderstorm
progression reporting & alerting, and
automatically activates WAVE Siren
Stations upon lightning ALARM.



3 WAVE Siren Station Dual with Strobes (Section 3)

Horns sound and strobes flash to alert
humans to the lightning threat.





System Design: University / School / Campus

Lightning Detection and Early Warning

Strike Guard and WAVE Siren systems automatically alert students, staff and faculty at over 100 schools and universities around the world.

Our consultants are here to help design custom lightning detection and warning systems for campuses of any size.

WAVE Sirens can be activated manually for any reason to alert students that the campus is closed.

University / School / Campus Lightning Warning Package

Strike Guard System
WxEIB with WAVE Transmitter
Wave Siren Station Dual w/ Strobe

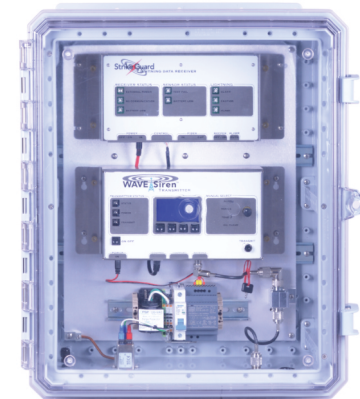
Strike Guard Lightning Detection System (Section 1)

Detects lightning threats and categorizes threats by proximity.



Wxline Equipment Indoor Bulkhead with WAVE Transmitter (Section 4)

Protects the Lightning Data Receiver and WAVE Transmitter; activates the WAVE Siren Stations.



3 WAVE Siren Station Dual with Strobes (Section 3)

Horns sound and strobes flash to alert students and faculty to the lightning threat.





Siren for
Tennis Courts

Siren for School,
Pools, and Baseball
Fields

Siren for
Soccer Fields

Strike Guard Sensor and Base Equipment at the School Administration Building

System Design: Resort / Hotel

Lightning Detection & Warning



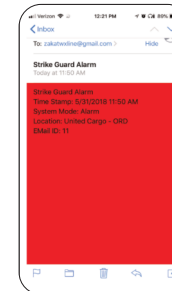
Strike Guard Lightning Detection System (Section 1)

Detects lightning threats and categorizes threats by proximity.

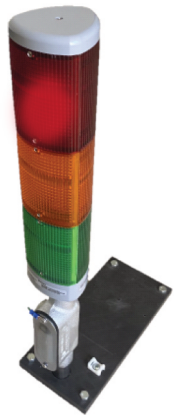


Wxline Equipment Indoor Bulkhead with PC and WAVE Transmitter (Section 4)

Located in the control room, the WxEIB-PC provides thunderstorm progression reporting & alerting, and automatically activates WAVE Siren Stations upon lightning ALARM.



Staff members receive Lightning Alarm Notifications via PCs and Mobile Devices.



WAVE Siren Light Stack-Only Station

Strobes flash visual alerts to warn guests and staff of the lightning threat.

Resort / Hotel Lightning Warning Package

Strike Guard System
WxEIB-PC with WAVE Transmitter
WAVE Siren Light Stack-Only Station

Add Horns for Audible Alerts!





Strike Guard Sensor and Base
Equipment on the Hotel

WAVE Siren
at Second Pool

WAVE Siren
at Ride Share

WAVE Siren
at Main Pool

Custom Lightning Safety Posters

Wxline designs and prints heavy-duty waterproof vinyl posters for clients to help educate personnel on lightning warning systems and facility-specific lightning safety policies. Contact Wxline for custom designs.

Fully-Automated Expert Lightning Warning & Protection System at Winged Foot

A Strike Guard Lightning Detection Sensor monitors cloud and cloud-to-ground lightning within 20 miles.

Lightning threats are dangerous but foreseeable

Persons pursuing outdoor activities are often exposed to the lightning threat that can cause injury or death. Fully-automatic lightning warning systems help enforce policy, eliminate human error, and protect conductive electrical equipment such as golf course irrigation systems.

Our Strike Guard Lightning Sensor detects lightning and categorizes threats by proximity. CAUTION, WARNING and ALARM conditions are issued and alerts are sent via email and text message.

Guests are warned if lightning is detected within ALARM range


When lightning is detected within 5 miles, WAVE Sirens Automatically sound to warn guests of the danger.

When you hear the Sirens, please return to the clubhouse. The course is closed.


Critical Asset Protection Bulkheads are automatically activated as well to protect the irrigation system.











The ALL-CLEAR signal will sound and the irrigation system communications automatically initiate 30 minutes after the last lightning ALARM event.


Fully Automatic Lightning Detection System



Fully Automatic Warning and Irrigation Protection System



Lightning Proximity (Distance from Sensor)	Strike Guard System Mode	PC Alerts	Email/Text Alerts	Audible/Visual Alerts	Critical Asset Protection Bulkheads
Lightning within 20 miles:	CAUTION				
Lightning within 10 miles:	WARNING				
Lightning within 5 miles:	ALARM				
No Lightning ALARM events for 30 minutes:	ALL-CLEAR				



WAVE Siren at 10 West

WAVE Siren at Clubhouse

WAVE Siren at 16 West Tee

WAVE Siren at 17 East Shed

WAVE Siren at 5 West Bathroom

WAVE Siren at Ball Shack


Strike View Software shows system mode and countdown to ALL-CLEAR, and enables notifications to cellular devices and PCs via email and text message.

Strike Guard Lightning Detection Sensor, Base Station and Irrigation Protection Equipment at Maintenance Building

Proven Track Record

Since 2001, Wxline has designed, manufactured and installed state-of-the-art systems to address the most demanding lightning safety & equipment protection needs.

Prepared for:



WXLINE

Tel: +1 508 615 9999
Toll-free: 800 615 0340
www.wxline.com

FOR YOUR SAFETY

Lightning Warning System at Seminole Hard Rock Hotel & Casino

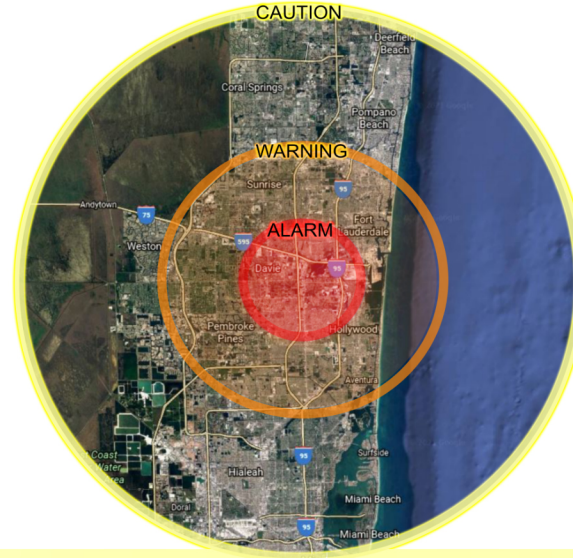
Lightning is dangerous. The Lightning Warning System helps warn guests and staff when lightning is in the area. Always seek shelter if you hear thunder. Play at your own risk.

Local Lightning Detection System



The Strike Guard Lightning Detection Sensor monitors lightning within 20 miles.

CAUTION, WARNING and ALARM alerts are issued when lightning is detected within 20, 10 and 5 miles. Strike Guard avoids false alarms.



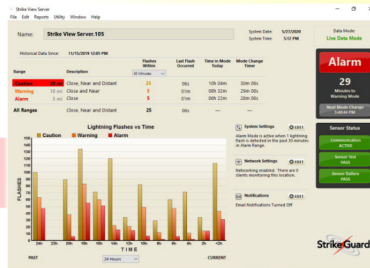
Fully Automatic Wireless Warning System



The WAVE Siren Warning System automatically activates when lightning is detected within 5 miles. Seek shelter.

The ALL-CLEAR signal (horn intermittent/strobes turn off) automatically sounds 30 minutes after the last lightning event detected within 5 miles.

Software Alerts



Lightning within 20 miles:

CAUTION

Lightning within 10 miles:

WARNING

Lightning within 5 miles:

ALARM

No Lightning ALARM events for 30 minutes:

ALL-CLEAR

Visual Alerts



Email & Text Alerts



Strike Guard Sensor and Base Located On The Hotel



FOR YOUR SAFETY

Since 2001, Systematic Technologies and Wxline have designed and manufactured state-of-the-art systems to address the most demanding lightning safety & equipment protection needs.

SYSTEMATIC TECHNOLOGIES (866) 307-2558 info@systematictech.com

WXLINE

Additional Parts and Ordering Information



Wxline Surge Arrester in Enclosure

Secondary surge arrester for WAVE Siren Station, mounted in outdoor-rated NEMA 3R enclosure measuring 6 x 8 x 4 inches. Includes quick-connect for wire connections and ground lug.



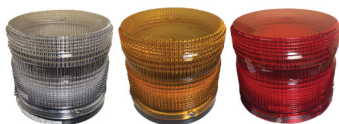
Extended-Range WAVE Siren Antenna Kit

Extended Range WAVE Siren Station 3-foot receiving antenna with stainless steel antenna mount and 12 ft. antenna cable.



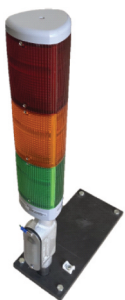
Strike Guard RS232 to fiber-Optic Converter

Converts data from the Strike Guard Lightning Data Receiver to a PC running Strike View Software.



WAVE Siren Station Strobes

High-intensity Clear, Amber or Red Strobes illuminate during lightning CAUTION, WARNING, or ALARM modes.



Tri-Color Strobe Light Stack

Tri-colored light stack illuminates to show Strike Guard System Mode: AMBER (Xenon) CAUTION light indicates lightning within 20 miles; RED (Xenon) ALARM light indicates lightning within 10 or 5 miles; GREEN (LED) ALL-CLEAR light indicates no lightning events have occurred within the past 30 minutes. This feature can be added to a new WAVE Siren Station or Wxline Equipment Indoor Bulkhead.

Authorized Distributors

Wxline proudly partners with experienced Distributors around the globe. Wxline Distributors support many different industries, including golf, mining, manufacturing, aviation, recreation, military, education, and municipal. Please contact Wxline to be connected with a Distributor near you, or if appropriate, Wxline will work with you directly. If you are interested in becoming a Distributor, please contact Wxline.

Shipping and Handling

Shipping and handling fees are quoted on a case-by-case basis. Orders shipping outside of the contiguous U.S. may require a special handling fee. For international orders, all duties, taxes, customs, or brokerage fees are the sole responsibility of the customer.

Payment

Wxline accepts several different types of payment. A valid credit card (Visa, MasterCard, or Discover), direct wire transfer, and checks are most common. Orders placed by check will require receipt and successful deposit of the check before being processed. Payment via Purchase Order is available to government entities and pre-approved clients. We will process your credit card for the full amount due, including any additional shipping or surcharges, prior to shipping your order.

Warranties

Wxline warrants that all products it distributes and sells will be free from defects in materials and workmanship for a period of one year from the date of receipt by the end user. Extended Warranties / Advance Exchanges are available for many Strike Guard and WAVE products (see section 8). If a product proves defective within the respective period, Wxline will provide timely repair or replacement of the product. Effectiveness and reliability of the Strike Guard and WAVE system is dependent on proper design, installation, monitoring, and maintenance for each unique facility.

Questions? Connect with Wxline or your Authorized Wxline Distributor

Wxline, LLC

www.wxline.com

Email: info@wxline.com

Phone: +1.520.615.9999

Service, Shipping and Receiving Address:

423 South Olsen Avenue, Tucson AZ 85719 USA

Corporate Mailing Address:

3924 North Calle Casita, Tucson AZ 85718 USA



Located at 423 South Olsen Avenue in Tucson Arizona, USA, the Wxline factory is used for product development, testing, and manufacturing.

Wxline encourages Distributors and Clients to visit Tucson for hands-on learning and training sessions.



Wxline supports thousands of critical customer safety applications worldwide. Our clients rely 24/7 on Strike Guard, WAVE Siren, and Strike View Software technology for automated lightning warning notification. Wxline customers range from many industries including mining, manufacturing, aviation, golf, recreation, military and municipal.

