

- Outdoor Warning Sirens
- Indoor Warning Sirens
- Intelligent Systems
- Notification Software



Warning & Mass Notification Systems

PRODUCT SELECTION GUIDE

Total Solutions for Critical
Communications

TOTAL CONNECTION

TOTAL SOLUTIONS

to serve and protect Federal Signal offers community leaders a portfolio of network systems to protect people, property and the environment — every day.



Campus Alerting



Cloud-based Citizen Alerting and Notification



Community and County-wide Outdoor Sirens



Military Giant Voice Notification Systems



Nuclear Power Plant Warning Systems



Industrial Plant-wide Alerting
Notification and Evacuation System,



Commercial Building
& Security Evacuation Systems

NEW PRODUCTS

INFORMER100



High-Powered
Outdoor Speaker



CommanderOne™

Cloud based Platform
Desktop and Mobile App





Warning & Mass Notification Systems

Software Control

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► Model Commander® On-Premises

Siren Control and Messaging System

The Commander siren control system offers both secure activation and status monitoring of any alert and notification system. From Giant Voice to Mechanical and Intelligent siren systems, Commander is designed to control, monitor, and link your warning system.

Federal Commander continues to evolve to meet the challenging demands of customers throughout the world to provide a system unmatched in its features and ease of use. From controlling 1 siren to 511, the system can expand to accommodate your changing needs. Federal Commander provides an easy to use hotkey activation screen. Administrators can program 30 hotkeys to activate all sirens, sirens in zones, or individual sirens. Hotkeys can be color coded and grouped. Each hotkey can also be programmed to include a text, email, or voice message sent to first responders, citizens or the media to alert them on the situation. In this way a single hotkey can activate sirens and send informational messages simultaneously. Predefined alerts can also be sent from the activation screen without activating the sirens.



FEATURES

- PC or Server based system
- Up to 511 sites
- Support of analog, digital (P25/Tetra), IP, cellular, satellite and landline communications
- Control of municipal, county and state siren systems
- Control of giant voice systems
- Control of Intelligent Systems
- Local and web based control using CommanderOne
- Secure communications with 128 & AES 256 encryption and time-based encryption
- Custom user interface for your specific application

New Feature! Commander can be integrated as a fully compliant APCO Project 25 (P25) two-way communications outdoor/indoor warning system.

The Commander Siren Controller System offers Emergency Managers and system operators complete, secure activation and status monitoring of any siren system. From siren activation to in-building alerting, this system is designed to provide your facility with complete alert and notification capability.

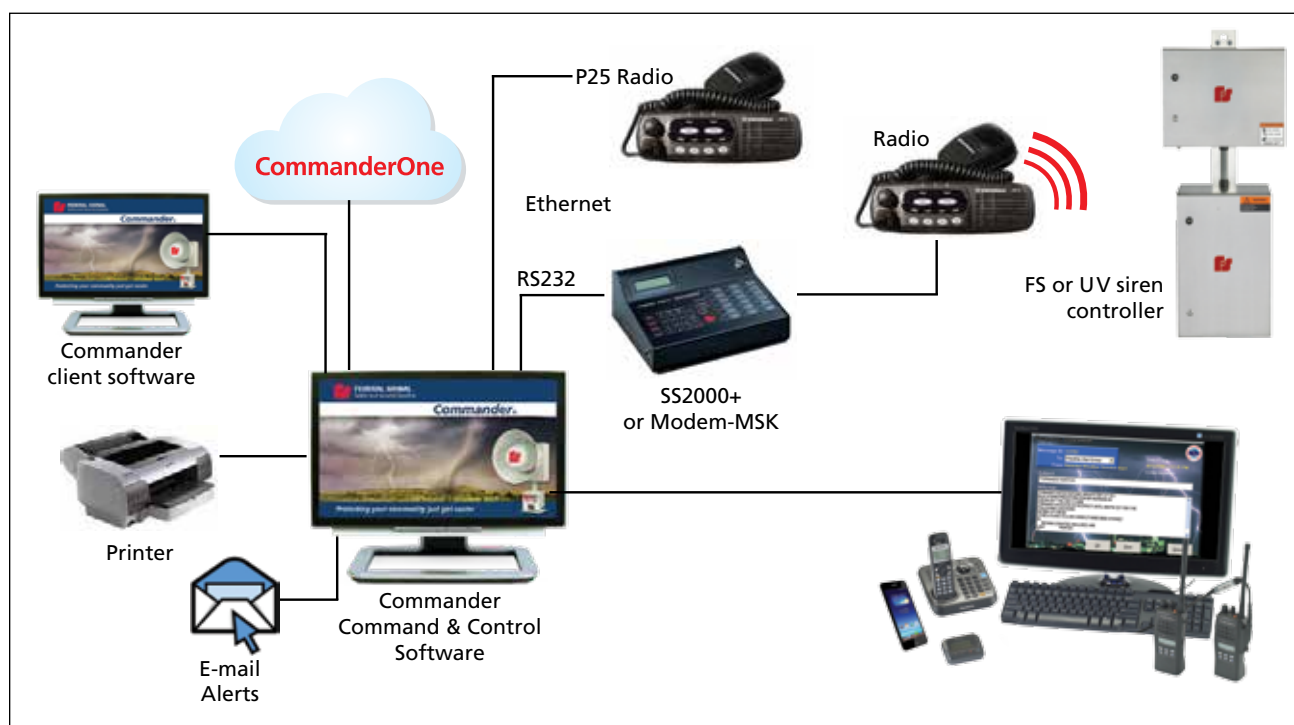
Commander has integrated networking and messaging capabilities.

- Networking allows the system to operate radio systems and IP systems simultaneously.
- Messaging provides personalized alerts to devices such as cell phone, computer, pager, handheld radio, etc. Messaging provides additional information to key personnel or to citizens.

Activation of sirens based on polygons from National Weather Service is provided using the CommanderOne web based control. CommanderOne integrates automatically with your local siren activation system to provide "anywhere" activation, control and monitoring.

Siren Controllers are available for both electronic sirens, speakers, and electromechanical sirens. These controllers come equipped with over-the-air programmability via secure digital technology.

Commander® On-Premise Siren Control and Messaging System (SFCD)



SPECIFICATIONS

RTU Capacity: Up to 511 siren RTU's

Communications support of: Analog LMR radio systems
Digital radio systems including P25 Cellular and satellite
Wireless broadband IP networks Landline communications

Security: Time based encryption 128 data communications encryption
256 AES data communications encryption
User password and role based security

Hardware Activation support for: SS2000+ local activation point with hotkey activations
Siren activations using Intelligent System Informers

RTU types support for: Mechanical siren systems
Ultravoice giant voice systems
Intelligent Systems using Informer product line

Giant Voice support for: Live PA Text-to-speech and WAV file broadcasts

Intelligent Systems support for: Informer product line
Desk / Wall / Rack / Outdoor Systems 2-way Intercom and recording Custom and specialized alert and notification systems

Zoning: Unlimited zone creation

System: Alarm logging and reporting Siren activation and monitoring using customized maps

Language: English default with ability to customize language per country

System Backup: Create and restore system back up files

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Considerations for system configuration:

Description

Windows application software:

for up to 10 sites

for up to 25 sites

for up to 255 sites

for up to 511 sites

Part Number

SFCD10

SFCD25

SFCD255

SFCD512

OPTIONAL ACCESSORIES

Description

Warranty, up to 10 users

Warranty, up to 25 users

Warranty, up to 255 users

Warranty, up to 511 users

Upgrade, to 25 sites

Upgrade, to 255 sites

Upgrade, to 511 sites

TCP/ IP client software (5 seats)

Client software extended one-year warranty

Modem

Server with Windows®, 22" flat screen monitor

120V Uninterruptible Power Supply

Desktop Controller

Part Number

SFCD-W10

SFCD-W25

SFCD-W255

SFCD-W511

SFCDUPI

SFCDUPII

SFCDUPIII

SFCDCLNT

SFCDCLNT-W

MODEM-MSK

X-PCS-22T

X-UPS

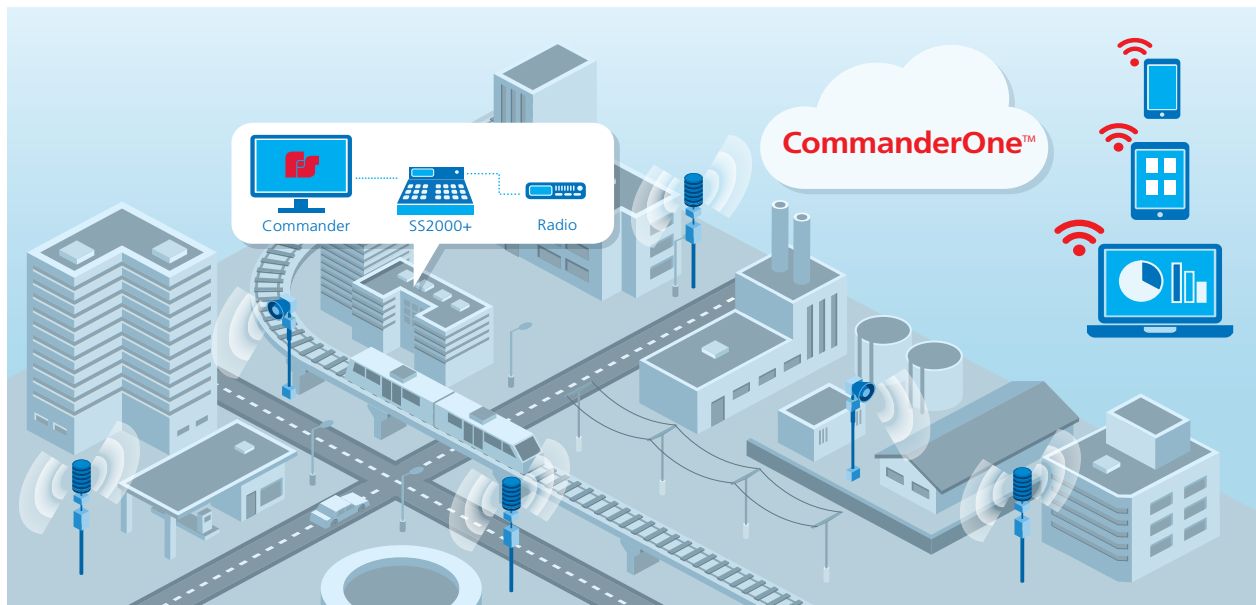
SS2000+

► CommanderOne®

Cloud-Based Control for Your Warning Systems

CommanderOne is the latest innovation that allows you to connect with your most critical asset anytime, anyplace. The CommanderOne cloud based platform enables you to monitor and control your warning sirens from any desktop or mobile device. It offers real-time data with actionable insights, enabling you to make important decisions quickly.

We understand that replacing a legacy infrastructure with new smart devices may be cost prohibitive, therefore, CommanderOne leverages your existing Federal Signal warning system and makes it smarter. With its simple dashboard and intuitive interface, CommanderOne is designed to make your mission successful in critical moments. CommanderOne is easily integrated with your existing Commander On-premise system. CommanderOne communicates with your system through a secure network communications interface. As changes occur with the On-Premise system those changes are mirrored on the cloud-based control system. Siren activation and monitoring can occur from anywhere from virtually any device. The map interface provides status indications with manual activations or user defined polygons. Automatic or semi-automatic weather based polygons siren activation is available for all CommanderOne users.



User Experience – The Intuitive Interface is simple to setup, always up-to-date, and connects to your on premise Commander control system.

Map-based Activation – Location of sirens and their status is critical. Use the geo-intelligent interface to see a overview of your system.

Weather – All CommanderOne systems will have access to activate sirens based on weather based polygons.

Auto-Sync Hotkeys – No need to keep multiple locations synchronized, your hotkey activation settings are automatically created in CommanderOne.

Mobility – A user-friendly app for iOS and Android. It has a web-based console with a mobile responsive GUI.

Desktop Freedom – Access your system from any computer connected to the internet.

Security – We understand that security is your top priority. CommanderOne utilizes IPSEC over SSL with a multi-layered authentication mechanism.

Scalability – CommanderOne platform is scalable from a few devices to hundreds of devices. It leverages a global network of data centers to maintain availability while securing your data.

CommanderOne® Cloud-Based Control for Your Warning Systems

Dashboard

Dashboard Web

Dashboard is designed to give you the status of the system in seconds. It utilizes Bing Maps and its responsive design enables colored icons to reflect the status of each site and control point. Each status monitor is color coded to quickly gain insight about your system. It has spatial intelligence where all siren sites are geo coded and can be searched through the search bar.



Dashboard App

Native iOS and Android apps let you control and monitor your system from virtually anywhere. It shows all the alarms by a single click. Just like other apps, the system can be refreshed with a slide of a finger.



Activation

Hotkey

Commander hotkeys are mirrored in the web and mobile interface to give you the simple effective interface you have trusted for years.



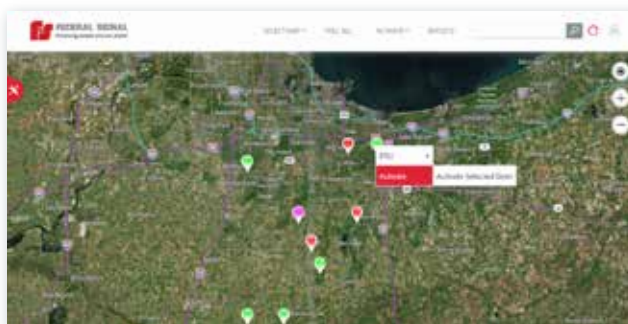
Manual Activation

In addition to hotkeys, sirens can be activated manually. Choose the sites and the function that you want in just a few clicks from either the web or the mobile application.



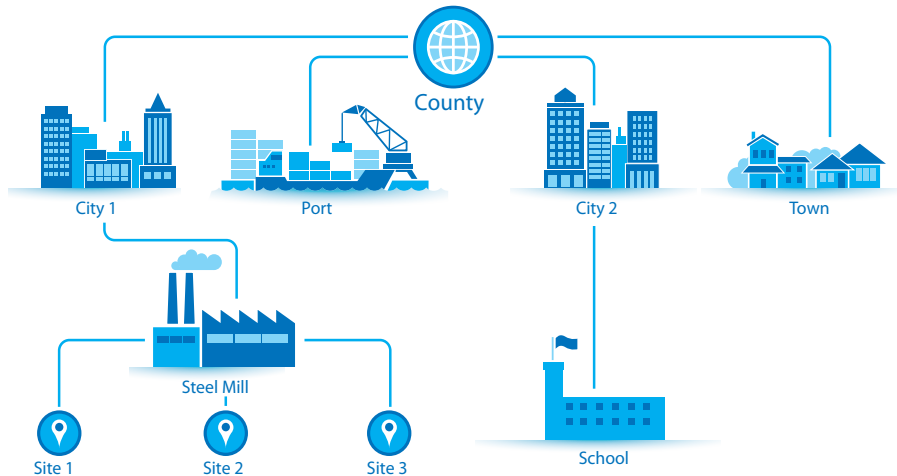
Map-based Activation

Sirens can be activated from the map. Its geo-intelligent interface allows you to activate or refresh status from the dashboard with just few clicks.



CommanderOne® Cloud-Based Control for Your Warning Systems

Centralized Command and Control



CommanderOne is designed for a centralized command and control by managing disparate systems. Whether you have one site or multiple sites, you need a single dashboard to monitor and manage your network.

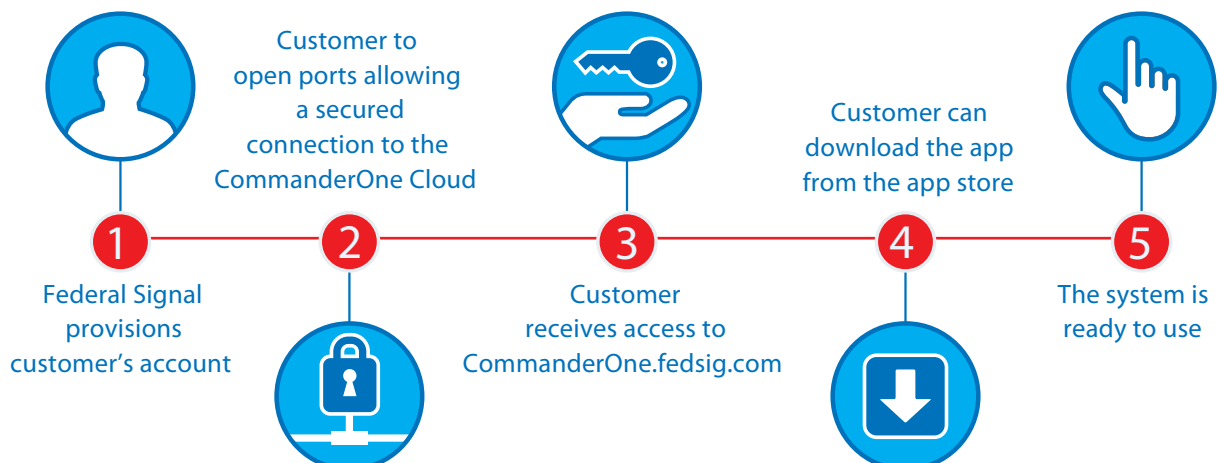
Reporting

Built-in reporting allows you to produce quick status reports. From the web console, you can download the reports in various formats including pdf, Excel, csv, etc.

Mobile app provides quick status of last activation and easy to use graphical display.



Ease of Implementation



CommanderOne® Cloud-Based Control for Your Warning Systems

Select CommanderOne Model for Annual Subscription

	Standard	Professional	Enterprise
Model Number*	COMMANDER1-S	COMMANDER1-P	COMMANDER1-E
Number of Seats	5	20	Per quote
Smartphone App (Android and iOS)	✓	✓	✓
Tablet App (Android and iOS)	✓	✓	✓
Desktop	✓	✓	✓
Number of Organizations	1	2–5	Over 5
Number of Devices (Sirens, Informers, etc)	up to 255	256–512	Over 512
In-release Commander Feature Upgrades and Fixes	✓	✓	✓

*Includes remote implementation support. For on-site support and training, contact your Federal Signal representative for a quote.

Prerequisites

- Commander Software version 14.6 or greater
- Internet access at Central Control Unit (base station computer running Commander)
- Static IP address assigned to on-premise Commander

► CommanderAssist®

Mass Notification Dynamic Messaging Software



Dynamic Messaging
with series of decisions



Simplifies implementation
of your Emergency
Response Plan

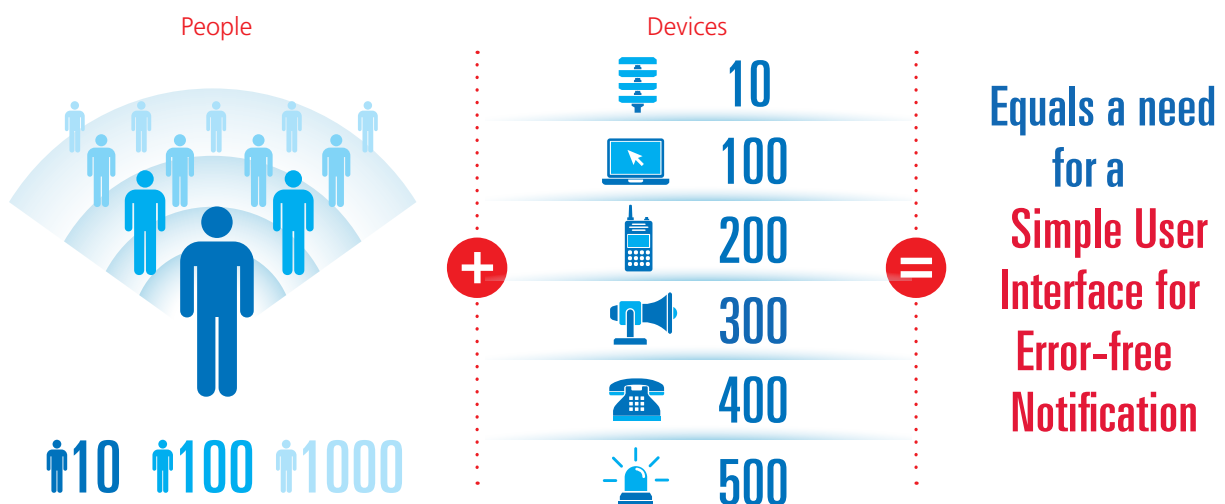


"1-click" activation
screens with Hotkeys



Having an emergency notification system is important to organizations. Having the **right multi-layered emergency notification system** is critical to people's safety, protection of property, surrounding communities and your operation's continuity. With numerous disparate systems ranging from indoor public address, outdoor warning, radios, cell phones, landlines and computers, it can be a challenge to notify the right people at the right time with the right message. Federal Signal's **CommanderAssist™**, a single on-premise platform for all critical communications, can help protect life and property, meet regulatory requirements, and improve operational efficiencies.

CommanderAssist™ enables Emergency and Security Managers to send alerts that comply with their emergency response plan. CommanderAssist's simple interface walks a user through a series of activation screens for an easy dynamic message deployment. The software can be fully integrated to deploy messages with Federal Signal audible and visual signals, outdoor sirens, or computers, phones and land mobile radios.



CommanderAssist Functions and Capabilities:

Desktop Alerting



CommanderAssist distributes pop-up like messages on connected Windows® client computers. It provides confirmation of delivery and acknowledgement from the recipient. Based on the type of alert, you can customize the colors, and add sounds and messages. It automatically dissolves pop-ups for non-emergency messages and it also can take over the screen, requiring the recipient to take action for emergency messages. For ease of deployment, it is compatible with desktop management tools for unattended installs.

Text to Speech



Dynamic messaging, CommanderAssist's most popular feature, creates messages on the fly by utilizing a Text-to-Speech technology that delivers accurate and high quality voice.

Text Messages



Text message is an important channel to deliver emergency messages. CommanderAssist has the capability to deliver text messages utilizing your current IT infrastructure.

SIP Interface*



Session Initiation Protocol (SIP) is a protocol used to establish and manage communications session between IP endpoints, typically for voice calls. In order to maximize your current communications infrastructure, CommanderAssist can integrate with SIP enabled PBX. This enables notification via phone calls.

*Applicable for Professional and Enterprise models.

Custom Screen Design



Federal Signal is dedicated to creating the shortest path to value for you. Our goal is to optimize the way your organization works so you can get the job done faster, and with better results. CommanderAssist includes consulting hours to create a custom screen user interface that meets your needs.

Hosted Dialing*



If you prefer hosted dialing as primary or backup to your local telephony, CommanderAssist provides that. This feature requires access to the internet.

*Applicable for Professional and Enterprise models.

Commander



CommanderAssist runs on the Commander platform, a command and control software that is used to control Federal Signal sirens.

What our customers are saying...



CommanderAssist enables us to react faster and effectively in an emergency situation versus our old manual way. The first few seconds in an emergency are critical. The software's intuitive dashboard is a simplified short series of event specific menu choices in comparison to the outdated cumbersome and complex process.

EHS / Environmental Health and Safety Manager (Chemical plant)

CommanderAssist® Mass Notification Dynamic Messaging Software

Scenario



...a fire broke out in Dock Area 1, and there is a strong wind today from the west. I need to alert all employees of the fire and tell everyone who is downwind that they need to evacuate.

Where?

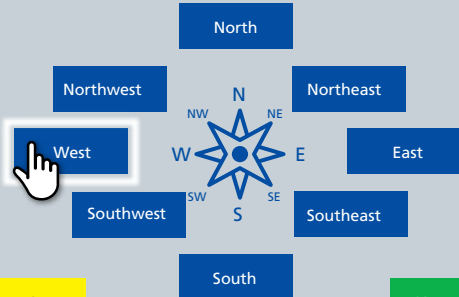
Dock Area 1	Dock Area 2	Dock Area 3	Dock Area 4
Administration Building	Medical Building	Security Building	Facilities Management
EAST LAB	WEST LAB	ENRICHMENT CENTER	TEST CHAMBERS
REPLUSION HOLDING	CONVERSION HOLDING	CLEANSING HOLDING	PROPULSION GEL HOLDING
CCU 1	CCU 2	OXY	FRACTIONAL DISTILLATION
COKER	CRUDE AREA	ALKY	BOILER

ALERT SECTION:
Site Wide Alarm
Fire

What happened?

Fire	Medical
Active Shooter	Site All Clear

The wind is from the west



North
Northwest
West
Southwest
South
Southeast
East
Northeast

BACK CONTINUE

What do I need to do?

Evacuate Non Essential	Emergency Response Required
Clear Roadways	Evacuate Downwind Personnel
Shelter In Place	No Response

BACK CONTINUE

Send the message

ABOUT TO ACTIVATE:
Fire
Dock Area 1
West
CONTINUE
Evacuate Downwind Personnel

BACK CANCEL ACTIVATE

As Plant Manager, I am responsible for a large number of personnel, contractors and visitors who rely on me to ensure a safe environment. Not only has Federal Signal met our specific Life Safety communications needs, CommanderAssist also allowed us to reduce our operational insurance / facility underwriting costs without compromising safety.

Plant Manager (Chemical plant)

Our hazardous environment requires me to wear PPE and doesn't allow me to use a cell phone. Our old manual notification process is now replaced with voice messages on our land mobile radios; this makes me feel so much safer and secure at work.

Production Operator (Oil Refinery)

CommanderAssist® Mass Notification Dynamic Messaging Software

Specifications

	Server Requirements	Client Requirements
Operating System	Windows® Server 2008 Release 2 Service Pack 1	Windows® 7 Service Pack 1 or newer
Software	Microsoft® NET Framework version 4 Microsoft® Visual C++ 2010 x86 Redistributable Package	Microsoft® NET Framework version 4 Microsoft® Visual C++ 2010 x86 Redistributable Package
CPU Speed	3.0 GHz or higher	2.6 GHz or higher
CPU Processor	Intel® Xeon Processor or higher	Intel® Core Duo, Xeon Processor or higher
Memory	8 GB or higher	4 GB or more
Disk Space	40 GB or higher	100 MB or more
Network Adapter	100/1000 MB TCP/IP IPv4 network card	100/1000 MB TCP/IP IPv4 network card
Sound Card	Simple stereo sound card	Simple stereo sound card

1 Select CommanderAssist Model

	Standard	Professional	Enterprise
Model #	SFCD-C-S	SFCD-C-P	SFCD-C-E
Commander Software	Up to 25 devices*	Up to 25 devices*	Up to 255 devices*
Number of seats**	25	50	500
Unlimited Hosted dialing	✗	✓	✓
Text to Speech engine	✓	✓	✓
VoIP Module	✗	✓	✓
Consulting hours to design the screens (remote only)	10	20	Per Quote

*FSC siren controller and Informers are accounted in devices, RIU doesn't get counted as a device

** Users who get notification via desktop alerts, emails, phone calls and text messages

2 Select Annual Warranty

	Standard	Professional	Enterprise
Model #	SFCD-W-C-S	SFCD-W-C-P	SFCD-W-C-E
In-release Feature Upgrades and Fixes	✓	✓	✓
Unlimited Hosted Dialing	—	✓	✓
Consulting hours* to refresh the User Interface	5	10	Per Quote

*Consulting hours doesn't get carried over to next year

3 CommanderAssist Optional Requirements

Model #	Description	Notes
CS-RIU	Radio Interoperability Unit – interface up to 4 radios	This allows notifications to be sent to Land Mobile Radios. Local PC required.
CS-RIUPLUS	Radio Interoperability Unit with MINI PC – interface up to 4 radios	This allows notifications to be sent to Land Mobile Radios. Local PC is not required.
CS-SIU	Sensor Interface Unit	It is a smart device with 16 inputs and 4 relay outputs.
X-PCS-22T	Desktop Server with 22" Flat Panel Touch Monitor	A server with a touch screen monitor improves the user's experience when activating CommanderAssist.

Watch a short video on CommanderAssist for a quick software deployment demonstration.
Visit: www.alertnotification.net/news/CommanderAssist





► SS2000+

Local Hardware Activation Point

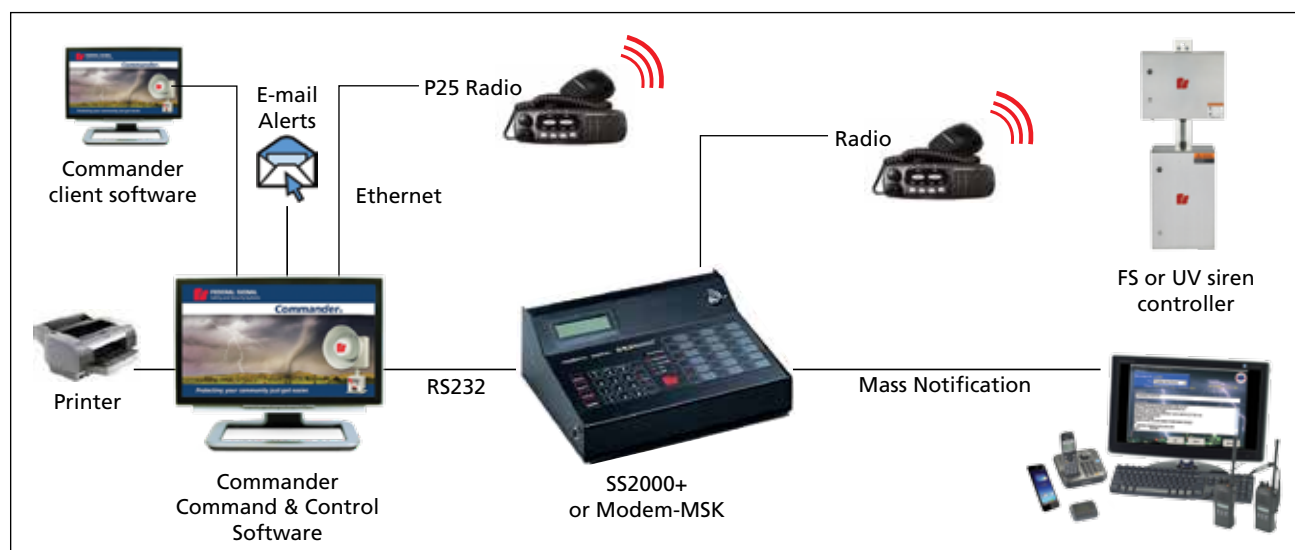
The SS2000+ local hardware activation point is Federal Signal's most advanced stand-alone control unit. The SS2000+ supports one-way communication or two-way communications, with two-way communications utilizing DTMF or FSK encoding. Command sequences are programmable and stored in non-volatile memory for retention even when electrical power is disrupted. Using the SS2000+, you can monitor and control your siren network with the SS2000+, offering 20 inputs for remote activation. The remote activation inputs can mirror the front panel push buttons or can be configured to provide 20 additional activation points.

To utilize the most advanced features of the SS2000+, connect it to a PC running Federal Signal's Commander software. Commander software and the SS2000+ can work together to monitor and control your system, with the SS2000+ providing full redundancy in the event that your PC is off line. You can stream .wav files from your PC for voice, music and text-to-speech. You can control new and legacy systems using DTMF, EAS, two-tone and AFSK encoding. You can program hotkeys for quick activation functions in various scenarios. The SS2000+ offers these capabilities in a simple, easy-to-use package for your desktop, or a 19" rack unit (SS2000+R) is also available. The SS2000+ can be configured using SSLOADER+, a simple Windows®- based program from Federal Signal.

FEATURES

- Redundant source of command and control should Commander PC be offline
- Desk and 19" rack mount versions available
- Available Ethernet port for network-based control
- Compatible with two-tone EAS and DTMF, AFSK encoding
- 20 remote activation inputs
- 24 command function hot keys
- Provides communication diagnostics
- Streams .wav files for voice, music and text-to-speech
- Built-in speaker and microphone jack
- Offered in 120 and 240VAC, with EU or UK versions now available

DTMF Encoder/Controller (SS2000+)



SPECIFICATIONS

Operating Temperature:	32° F to 140° F	0° to 60° C
Line Input	120/240VAC* wall transformer power supply	
Battery Input	11.5 - 20VDC (over voltage and reverse voltage protection)	
Power Supply Input Voltage	12-30VDC (12VDC typical)	
Input Current	300 mA (Standby 700 mA max.)	
Distortion	< 3.0%	
Ethernet	RJ-45 port, TCP/IP	
Microphone:		
Input Level	10mV - 150mV p-p	
Input Impedance	10k Ohms	
Input Jack	XLR Male	
Type	Dynamic	
Speaker:		
Power	1 watt	
Impedance	8 Ohms	

Audio Interface:

Audio Output	Balanced 600 Ohms, -55 dbm to 0 dbm
Audio Input	Balanced 600 Ohms, -35 dbm to 0 dbm
Decode Sensitivity	< 8-10 dBc S/N or 12 dBc SINAD
Relay Outputs	2A at 30VDC / 0.5 at 120VAC

Dimensions H x W x D:

Desk Mount	3.59" x 11.59" x 9.53"
	91.8 mm x 294.4 mm x 242.1 mm
Rack Mount	5.19" x 17.29"
	(19" front with bracket) x 10.10"
	131.8 mm x 439.2 mm
	(482.6 mm front with bracket) x 256.5 mm

Shipping Weight: Desk Mount 6 lbs 3 kg

Shipping Weight: Rack Mount 8 lbs 4 kg

*The SS2000+ Power Supply can be ordered with a US 120VAC,
or UK/EU 240VAC Power Cables, see models.

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Considerations for system configuration:

Description	Part Number
Local hardware activation point, desk mount	SS2000+
Local hardware activation point, 19" rack mount ¹	SS2000+R
Local hardware activation point, EU, desk mount	SS2000+EU
Local hardware activation point, UK, desk mount	SS2000+UK
Noise Cancelling Microphone ²	MNC-MC
UL2572 Compliant Noise Cancelling Microphone	MNC-NMS
Software Configuration: Windows® XP, Vista, Windows®, Server 2003/2008 Compatible	
SSLOADER+ Operating System	

REPLACEMENT PARTS

Description	Part Number
SS2000+ Power Supply with US Cable	Q-SSPWR
UK 240VAC Power Cable	Q17501252A
EU 240VAC Power Cable	Q17501253A
SS2000+ Vertex Radio Cable	Q17500863


¹ While there are no EU/UK rack mount models, the rack mount SS2000+R can be ordered with the appropriate replacement power cable if needed.

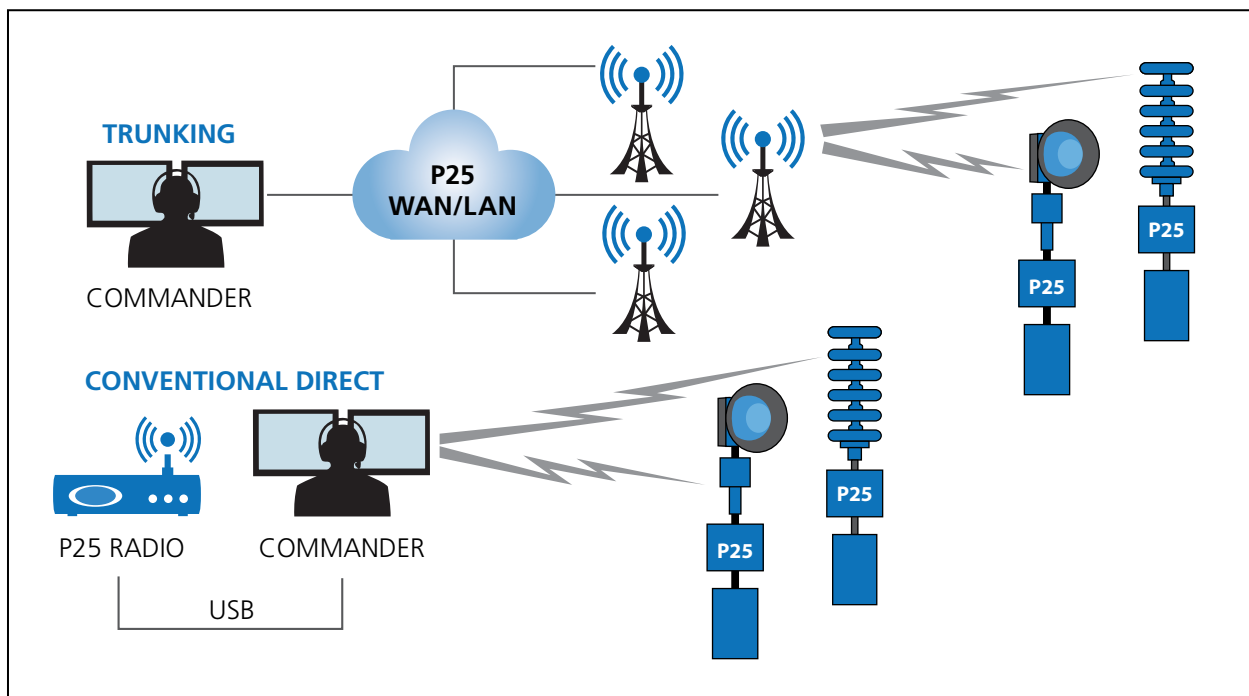
² Noise cancelling microphone model MNC-MC replaces the microphone on early revision models of SS2000+. Revision E and later models utilize microphone model MNC-NMS for compatibility with UL2572.

► Commander® P25

P25 Compliant Warning System

Federal Signal offers a Warning System that is fully compliant with P25 two-way communication systems. By utilizing this technology, users can eliminate the cost to maintain a legacy communications system or additional 3rd party hardware to become compatible with a P25 network, enabling Federal Signal Outdoor/Indoor Warning users to utilize their P25 Land Mobile Radio system with the siren network.

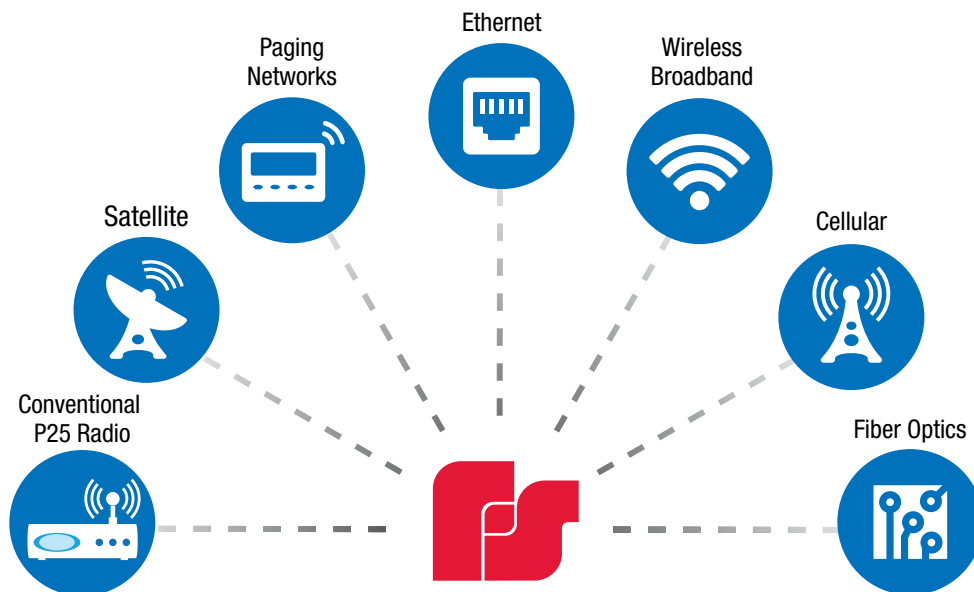
Federal Signal P25 Compliance Matrix		
	P25 Phase 1	✓
	P25 Phase 2	✓
	Conventional Direct Mode	✓
	Trunk Mode	✓



Control Point computers hosting the Commander software can now connect to a P25 trunked land mobile radio interface via an ethernet connection. Control points utilize a broadcast functionality to quickly and efficiently communicate with all remote controllers for All Call and Group activations. IP unicast to individual remote sites is used for individual activation and polling requests to minimize radio traffic in a multi-site system.

For customers that need P25 direct mode communication with remote siren site controllers, Commander software is USB plug-and-play compatible to P25 capable radios, enabling direct radio to radio communications without the need for trunking infrastructure.

P25 Compliant Warning System (Commander® P25)



One Integrated Communication Platform

Our total communications solutions span virtually every aspect of safety, security and productivity for your business while providing the latest in innovation, technology and the reliability you have come to trust.

Commander Software continues to evolve in order to meet customer's changing needs and provide a system unmatched in features and ease of use. From satellite to cellular to P25, let us provide you with a single, seamless, fully integrated solution.

HOW TO ORDER

Description

Specify Model, Command and Control System:

P25 IP Software key

Base station P25 radios (not required for trunked P25)

Federal Signal Commander software version 14.5 or greater required for P25 support

Part Number

SFCD-IP

BSP/BSPE¹

Specify Model, FC Remote Terminal Units:

FC controller P25 radio upgrade kits²

Q-FCTBDP-RADIO/Q-FCTBDE-RADIO¹

FC Controller P25 APX Radio Interface kit³

Q-APX-FCIK

FC RTU firmware version 3.2.0.5 (FCM+)/7.6.0.3 (UV) or greater needed for P25 support

Specify Model, UV Remote Terminal Units:

UV controller P25 radio upgrade kits²

Q-UVP-RADIO/Q-UVPE-RADIO¹

UV Controller P25 APX Radio Interface kit³

Q-APX-UK

UV RTU firmware version 2.4.0.1 (UV+)/5.3 (FCM) or greater needed for P25 support

¹ E = Encryption capable APX Radio

² Radio upgrade kits include RTU controller P25 APX Radio Interface Kit

³ P25 APX Radio Interface Kit needed to connect RTU controllers to P25 radios



► Model 508-128

High-Powered Outdoor Siren

Federal Signal's 508-128 siren is a high-power, rotating, uni-directional, 500 Hz outdoor warning siren that offers an anechoic chamber-certified signal strength of 128 dBc. The high-decibel output provides maximum coverage with minimum installation cost. Radio activation can further minimize installation costs by eliminating the need for leased dedicated control lines.

The siren rotates at 3 RPM and can produce three distinct warning signals: steady, wail and fast wail. The 508-128 siren will supply a minimum of 15 minutes of full power output from its batteries after AC power loss. The siren controls are available with battery operation, Solar AC operation, and AC operation with battery back-up, one-way and two-way radio control, wired or wireless ethernet, satellite/cellular or landline.

Ideal applications for these warning sirens include hazardous weather conditions, fires, floods, chemical spills and other types of emergencies, the 508-128 siren is an excellent choice to protect any community.

FEATURES

- High-powered rotating siren for maximum coverage
- 500 Hz, 128 dBc output
- Three distinct warning signals
- AC or Solar powered with battery operation or back-up
- Weather-resistant coating

High-Powered Outdoor Siren (508-128 Siren)

S P E C I F I C A T I O N S

Power:¹

Sirens can be powered from 120VAC, 240VAC, with battery back-up or battery operation. Solar powering can also be provided

Coverage: ²	70 dB	7,300' Calculated ²
	60 dB	14,700' Calculated ²

Signal Information:³

Signal /Sweep Rate	Frequency Range	Sweep Rate
Steady /Continuous	500 Hz	N.A.
Wail /10 sec.	180-500 Hz	10 sec.
Fast Wail /3.5 sec.	300-500 Hz	3.5 sec.

Pole Mounts:

Wood, steel, composite or concrete poles can be provided.

Contact Federal Signal for details

Communications:

Federal Signal can supply one-way and two-way communications.

Radio, IP, Landline, Satellite and Cellular can be combined to provide a robust alerting solution

Operating Temperature:⁴ -22°F to 140°F -30°C to 60°C

Dimensions Height x Width x Depth: 70.1" x 53.4" x 43.1"
(1780.5mm x 1356.4mm x 1094.7mm)

Shipping Weight: 590 lbs (268 kg)

H O W T O O R D E R

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description

Part Number

Siren Ordering Information:

Rotating electro-mechanical siren 128 dBc
+/- 1 dBc 48VDC, pole mount included
Rotating electro-mechanical siren, low frequency

**508-128
Equinox**

Siren Control Ordering Information:

One-way FC Controller, 120VAC operation **FC/H/U**
Two-way FC Controller, 120VAC operation **FCTBD/H/U**
One-way FC Controller, 120VAC to battery operation **DCFCB/H/U⁴**
Two-way FC Controller, 120VAC to battery operation **DCFCTBD/H/U⁴**

Command and Control for Multiple Siren Installation:

Console for siren activation (R for rack mount) **SS2000+/R**
Commander software for PC based siren activation, monitoring and control **SFCD⁵**

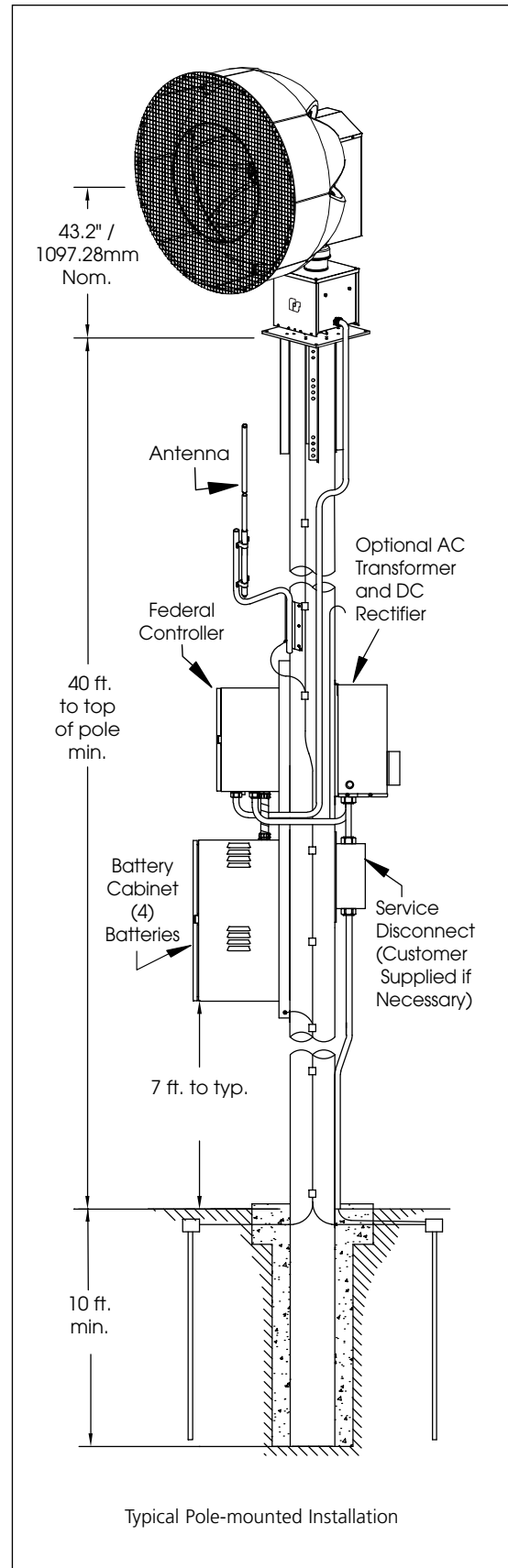
¹ Contact Federal Signal for powering options

² Actual coverage is dependent on many factors, contact Federal Signal for sound analysis of your specific location

³ The siren can operate throughout this temperature range provided that battery temperature is maintained at 18°C or higher

⁴ Batteries not included

⁵ See Product Selection Guide for ordering options





- Model 2001-130 and Equinox

High-Powered, Directional Rotating Siren

The Federal Signal 2001-130 and Equinox sirens is a high-powered, rotating, uni-directional outdoor warning siren. The high-decibel output provides maximum coverage with minimum installation cost. Radio/cellular/satellite or wireless IP activation can further minimize installation costs by eliminating the need for leased dedicated control lines.

The siren's projector produces a 60-degree projection of sound which rotates at 3 RPM and can produce three distinct warning signals: steady, wail and fast wail. The siren will supply a minimum of 15 minutes of full power output from its batteries after AC power loss. The siren controls are available with battery operation, solar, AC operation, and AC operation with battery back-up, one-way and two-way radio control, wired or wireless ethernet, satellite/cellular or landline. The 2001 Series is offered in low frequency (490 Hz) or mid-range frequency (790 Hz).

Ideal applications for this warning siren include hazardous weather conditions, fires, floods, chemical spills and other types of community or facility emergencies.

FEATURES

- High-powered rotating siren for maximum coverage
- Available in low and mid-range frequency
- Three distinct warning signals
- AC or Solar powered with battery operation or back-up
- Weather-resistant coating

High-Powered, Directional Rotating Siren (2001-130/Equinox)

S P E C I F I C A T I O N S

Power:¹

Sirens can be powered from 120VAC, 240VAC, with battery back-up or battery operation. Solar powering can also be provided

Signal Information:	2001-130	Equinox
Signal /Sweep Rate	Frequency Range	
Steady /Continuous	790 Hz	500 Hz
Wail /10 sec.	470-790 Hz	180-500 Hz
Fast Wail /3.5 sec.	600-790 Hz	300-500 Hz
Coverage:²	2001-130	Equinox
70dB	Up to 6,500'	Up to 6,100'
60dB	Up to 13,200'	Up to 12,200'

Pole Mounts:

Wood, steel, composite or concrete poles can be provided.

Contact Federal Signal for details

Communications:

Federal Signal can supply one-way and two-way communications.

Radio, IP, Landline, Satellite and Cellular can be combined to provide a robust alerting solution

Operating Temperature:³ -22°F to 140°F -30°C to 60°C

Dimensions H x W x D: 62" x 37" x 41"
(157 cm x 94 cm x 104 cm)

Shipping Weight: 460 lbs 205 kg

H O W T O O R D E R

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description

Part Number

Siren Ordering Information:

Rotating electro-mechanical siren 130 dBc +/- 1dBc @ 100' (30.5m) 48VDC, pole mount included

2001-130

Rotating electro-mechanical siren, low frequency, 125 dBc +/- 1dBc @ 100' (30.5m) 48VDC, pole mount included

Equinox

Siren Control Ordering Information:

One-way FC Controller, 120VAC operation

FC/H/U

Two-way FC Controller, 120VAC operation

FCTBD/H/U

One-way FC Controller, 120VAC to battery operation

DCFCB/H/U⁴

Two-way FC Controller, 120VAC to battery operation

DCFCTBD/H/U⁴

Command and Control for Multiple Siren Installation:

Console for siren activation (R for rack mount)

SS2000+/R

Commander software for PC based siren activation, monitoring and control

SFCD⁵

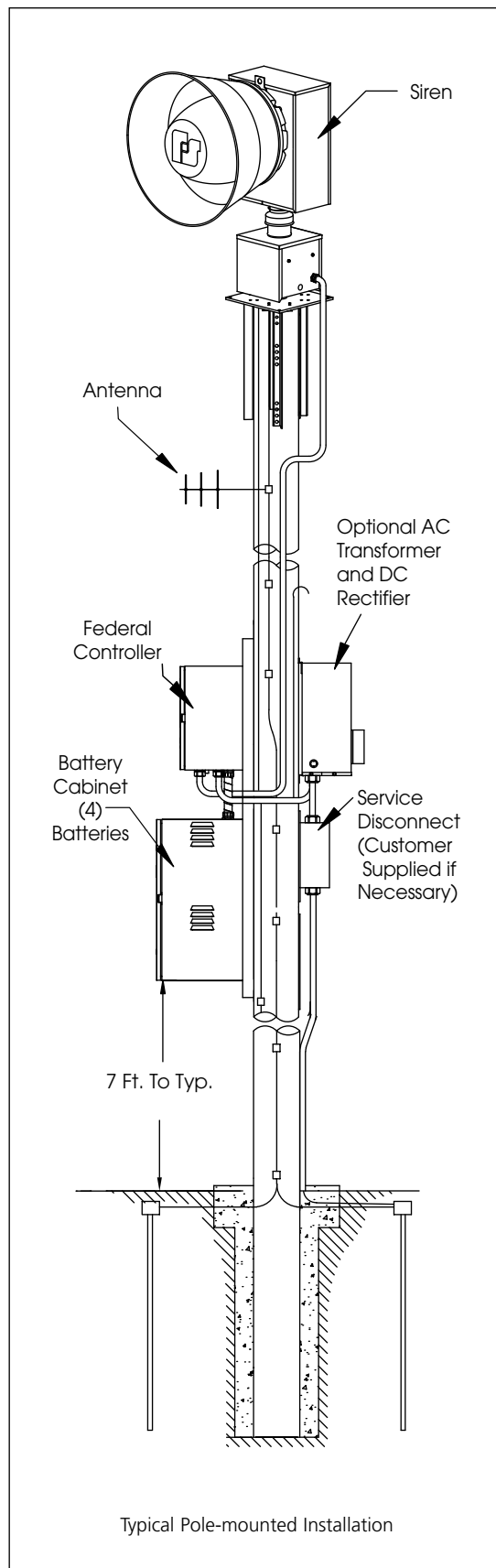
¹ Contact Federal Signal for powering options

² Actual coverage is dependent on many factors, contact Federal Signal for sound analysis of your specific location

³ The siren can operate throughout this temperature range provided that battery temperature is maintained at 18°C or higher

⁴ Batteries not included

⁵ See product page for additional information



Typical Pole-mounted Installation



► Model 2

Omni-Directional Siren

Federal Signal's Model 2 outdoor warning siren is an omni-directional siren capable of producing intense warning signals over a large area. The siren can be installed on a roof or utility pole.

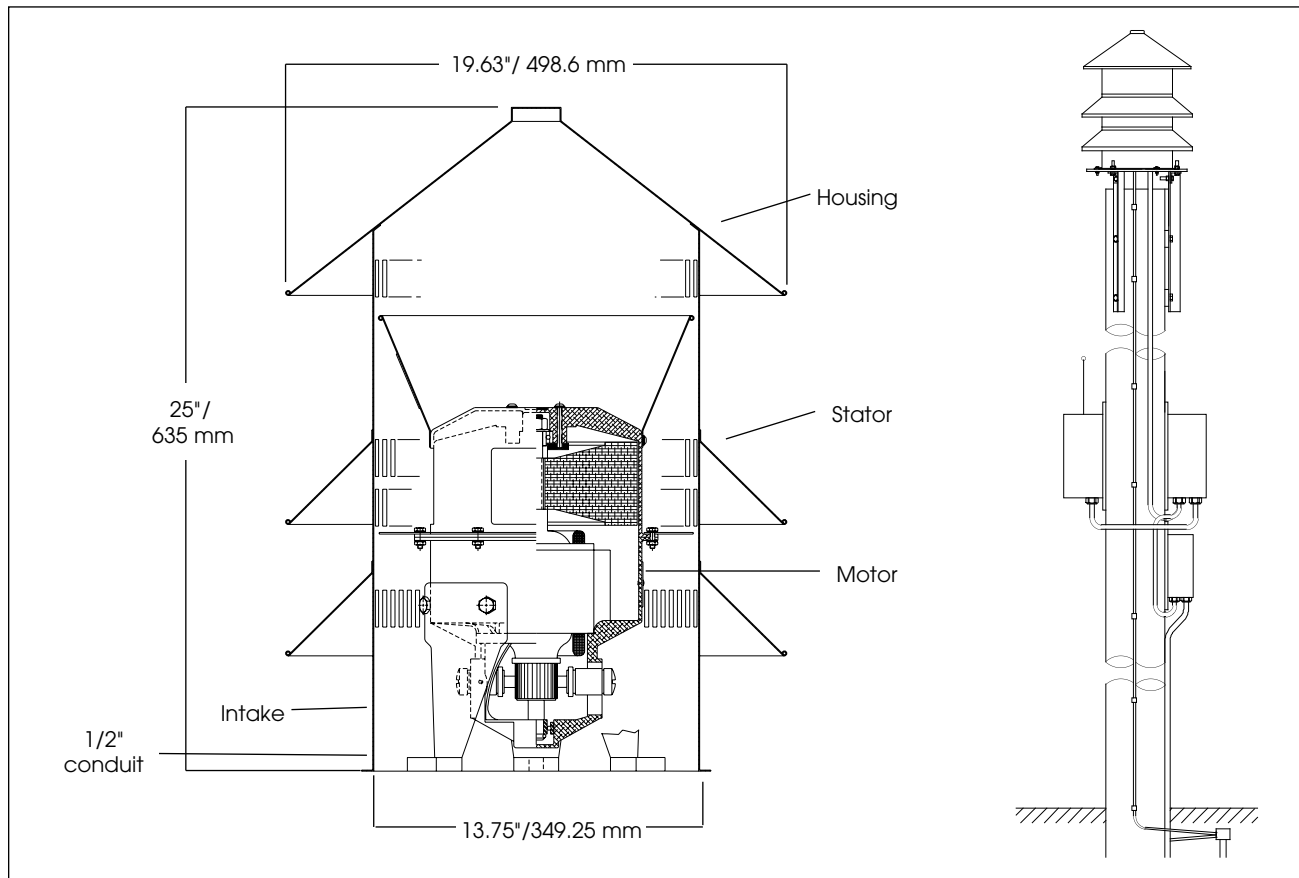
Federal Signal's Model 2 is a single tone siren capable of producing 102 dBc @ 100' while making only moderate power source demands. The Model 2 has a universal motor which operates from either 120VAC/DC or 240VAC/DC. A Federal Signal Model RC2W motor starter (purchased separately) is required to operate this siren.

Federal Signal's Model 2 can serve as an outdoor plant-wide warning system where volume is needed to contrast with high ambient industrial sounds. It is ideal for use in the large, wide open areas found in industrial facilities such as refineries, steel mills and manufacturing plants. The Model 2 can be used for start/stop work signaling, plant evacuation or other emergency situations.

FEATURES

- Available in 120VAC/DC and 240VAC/DC
- Produces 102 dBc @ 100'
- High-efficiency design requires only moderate power
- Roof mount standard and pole mount optional

Omni-Directional Siren (Model 2)



SPECIFICATIONS

Recommended Mounting Height:	35-40 feet	10.7-12.2 m
Available Tones:		1 standard
Effective Range*:	1,000 feet	304.8 m
Power Rating:	2 HP	2 HP
Power Requirements:	120VAC/DC	24A, single phase
	240VAC/DC	12A, single phase
Net Weight:	59.0 lbs	23.6 kg
Shipping Weight:	85.0 lbs	36.0 kg
Height:	25.0"	635.0 mm
Diameter:	19.63"	498.6 mm

REPLACEMENT PARTS

Description	Part Number
Bearing (Two Required)	Q8239A045
Brush and Spring (Two Required)	Q8247A020
Brush Holder (Two Required)	Q8247A021
Brush Holder Cap (Two Required)	Q8247A022

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description	Part Number
120VAC/DC, 102 dBc, Roof mount standard	2-120
240VAC/DC, 102 dBc, Roof mount standard	2-240
120V Motor Starter	RC2W-120
240V Motor Starter	RC2W-240

OPTIONAL ACCESSORIES

Description	Part Number
Pole Mount	PMS



► Model Eclipse8

Omni-Directional Siren

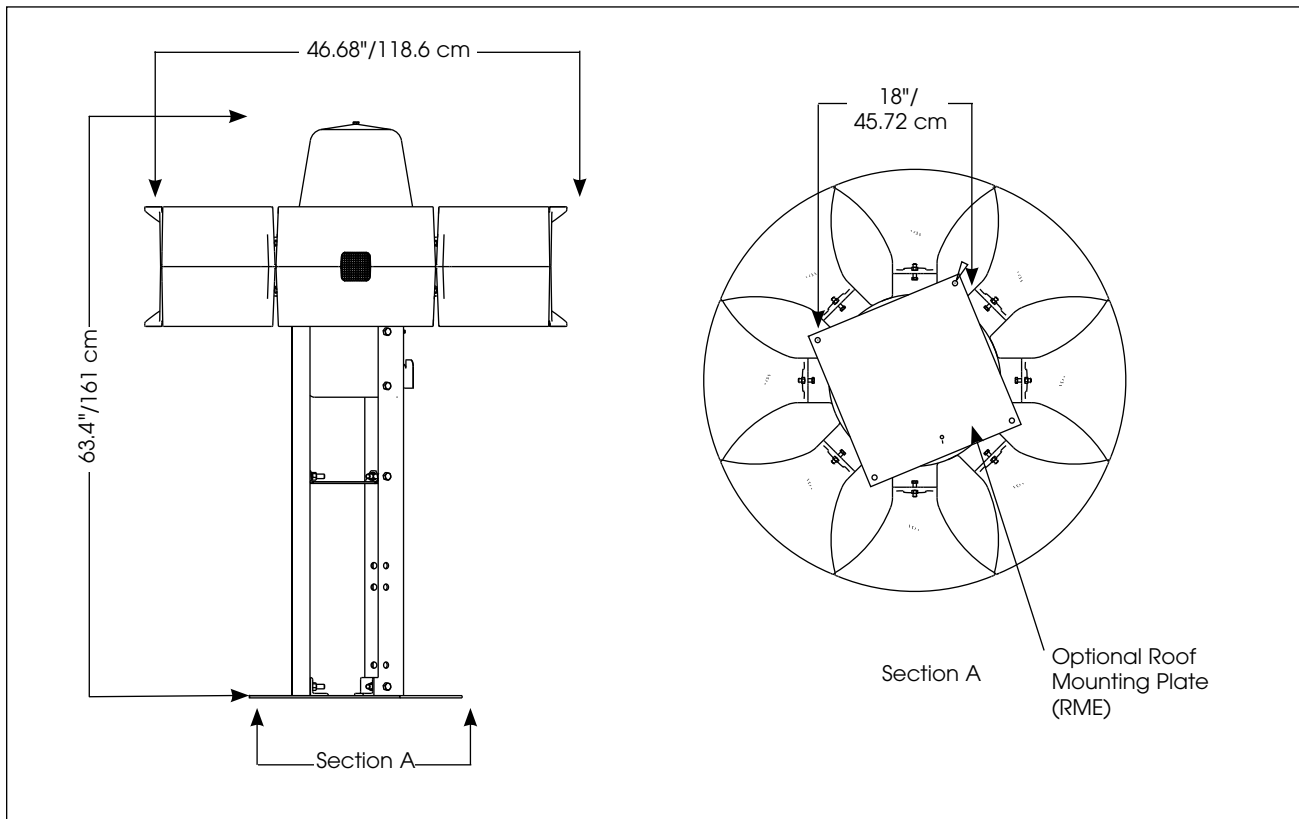
The Eclipse8 is a mid-sized DC-powered omni-directional siren for outdoor warning that produces high intensity warning signals. This powerful and lightweight outdoor siren provides coverage with a maximum sound pressure level of 115 dBc at 100 feet. The high decibel output provides maximum coverage with minimum installation costs. Operating from 48VDC, the siren utilizes the DC motor of our 2001 siren series for proven reliability.

The siren's eight projector horns covers a 360° omni-directional area, with the capability of producing three signal options: steady, wail and fast wail. The Eclipse8 will supply a minimum of 15 minutes of siren operation from its batteries even after 24 hours without AC power. The siren controls are available with battery operation, AC operation and AC operation with battery back-up. One-way and two-way radio control or landline options are available.

F E A T U R E S

- Omni-directional for 360° coverage
- Three distinct warning signals
- Can operate from batteries directly, or using optional AC with battery back-up
- Full battery operation or battery back-up option
- High efficiency design produces 115 dBc @ 100' while making moderate power demands
- Optional roof mount stand
- 100% aluminum design

Omni-Directional Battery Powered Siren (Eclipse8)



S P E C I F I C A T I O N S

Operating Temperature:	-22°F to 140°F	-30°C to 60°C
Effective Range @ 70 dBc:	2200'	
Net Weight:	255 lbs	116.0 kg
Shipping Weight:	380 lbs	173.0 kg
Height:	63.4"	161.0 cm
Width:	46.68"	118.6 cm

H O W T O O R D E R

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description**Part Number****Siren Ordering Information:**

Omni-directional siren, includes wood pole mount hardware

Eclipse8

Mounting Ordering Information:

Roof Mount Equipment (optional)

RME

Siren Control Ordering Information:

Eclipse8 Siren Control AC operated, 208 or 220/240VAC (specify voltage).

NEMA 4X aluminum control cabinet, (2) 48VDC contactors, and transformer/rectifier. 182 lbs / 53kg

2001-AC

Federal Controller 120VAC NEMA 4X aluminum control cabinet, (4) chargers (2) 48VDC contactors, and NEMA 3R aluminum battery cabinet.

(4) preset siren functions. Radio not included. 224 lbs / 102Kg

DCFCB



► Model FC

Siren Controller

The FC Controller is a remote-control activation point for equipment control (such as electro-mechanical sirens) with relay outputs. Ideal for siren control applications and process' controlled via relay contacts. The FC Controller is equipped with a FCM Plus Controller board which can be powered from 12VDC, 48VDC, 120VAC or 220VAC. The FCM Plus Controller board is equipped with 4 relays to control devices such as siren contactors, overhead door controls, lights, beacons, sounders or railway equipment. The FCM Plus Controller board has 4 inputs for use with external switches or contact closures, and can be programmed to activate the onboard relays and/or the audio from the FCM Plus Control board. The FCM Plus Controller board has built-in siren tones that interface to PA or intercom systems. The audio can be activated through physical inputs or the built-in pushbuttons on the FCM Plus Controller board. The FC is a compact NEMA 4 metal enclosure equipped with a latching and locking mechanism, removable lock not included. The enclosure has a ground stud and three pre-drilled holes for ease of use, and is equipped with a plug for the top RF hole and an AC lightning surge arrester.

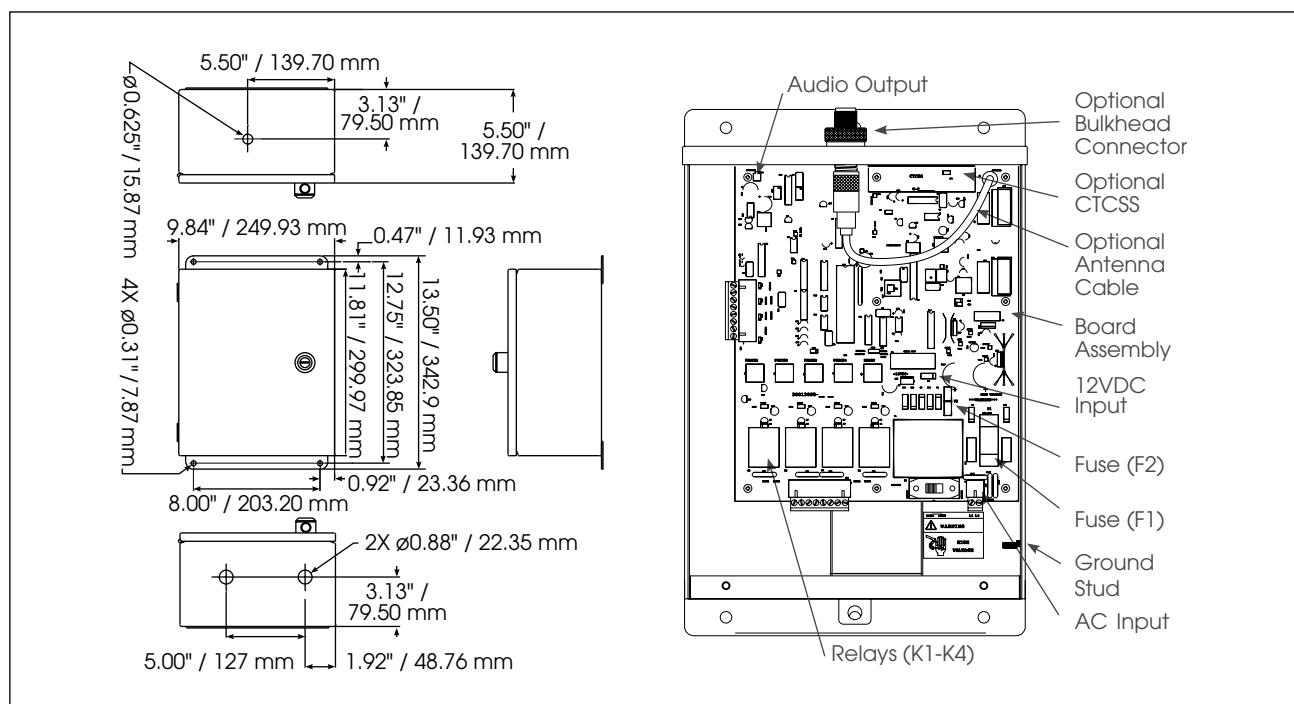
Other models available are FCH (high-band) and FCU (UHF) which include a synthesized radio receiver. Also available is FSPWARE, a software package that enables computer connection to modify supplied timing or to create unique on/off patterns for control of external equipment. Programming options via FSPWARE include radio receiver frequency, two-tone sequential tones/DTMF/AFSK decoding digits for security, custom audible signal tones and independent control of output relays and timing patterns for electro-mechanical sirens. Up to six control codes may be programmed and activated through any combination of two-tone sequential, DTMF, EAS, POCSAG, or digital AFSK. Four of the timing sequences can be initiated using local push buttons or remotely through dry contact closures. The use of SFCD Software and SS2000+ allows remote control activation and networking of multiple FC Controllers.

The Federal Controller is an ideal choice to control Eclipse8 and Model 2 siren series, radio activation of indoor PA systems, warning lights or various warning equipment, and fire house alerting applications.

FEATURES

- One-way radio control available
- Two-tone sequential, DTMF, EAS, POCSAG, and digital AFSK decoding for security
- Four individually programmable output relays
- Six built in siren tone signals for PA / Intercom
- External inputs / push buttons for local activation
- UL Listed and DNV Certified

Siren Controller (FC)



SPECIFICATIONS

AC Input Voltage:	120 or 240VAC $\pm 10\%$, 60Hz
DC Input Voltage:	15-75VDC, 400mA max @ 48VDC or 11-15VDC, 400mA max @ 12VDC
4 Relays, contact rating:	5A @ 120/240VAC 8A @ 24VDC
Number of remote activation inputs:	4
Audio Output:	0-2V peak to peak, maximum load 8 ohms
Environmental:	
Temperature	-22°F to 149°F -30°C to 65°C
Humidity	0-98% non-condensing
Dimensions H x W x D:	13.5" x 10" x 6" (34.3 cm x 25.4 cm x 15.3 cm)

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description	Part Number
Controller with FC Controller Board	FC
Controller with one-way high-band (150 - 174 MHz) radio receiver	FCH
Controller with one-way UHF band (450 - 470MHz) radio receiver	FCU

OPTIONAL ACCESSORIES

Description	Part Number
Federal programming software (Non-digital applications)	FSPWARE
Tone Coded and Digital Coded Squelch Decode	FS-PL1
Outdoor NEMA 4 Pushbutton Panel	PBS-4
220VAC Transformer rectifier with 48VDC, 120VAC and contactors with enclosure	2001-AC
Motor starter/cabinet NEMA 3R 120VAC	RC2W-120
Motor starter/cabinet NEMA 3R 240VAC	RC2W-240
Model 2, 120VAC/DC Omni-directional Siren	2-120
Model 2, 240VAC/DC Omni-directional Siren	2-240
Model 2 Pole Mount	PMS

See Project 25 product on page 248 for optional P25 configuration accessories if desired

REPLACEMENT PARTS

Description	Part Number
FCM Plus Control Board	Q2005263C
Radio Receiver High-Band	Q2005240G-02
Radio Receiver UHF Band	Q2005240G-03



► Model FCTBD

Two-Way Control and Status Monitoring

The FCTBD controller can control and monitor any electro-mechanical siren, and may be used in conjunction with the SS2000+ or Commander PC based software located at a central command point. The FCTBD will automatically report change in status back to the central command point through radio, IP, cellular, satellite or landline connections. The central command point can also poll the FCTBD for current status conditions. Status indicators are provided for intrusion alerts, activations and power issues. The FCTBD offers the ability to monitor six remote sensor inputs, such as: AC power, low battery and up to three additional sensors to monitor siren operation. The FCTBD is packaged in a NEMA 4 aluminum weatherproof cabinet and comes equipped with DIN rail for 120 or 240VAC power connections, 120/240VAC to 12VDC power supply, gel battery, FCM Plus control board, radio cable for Vertex VX-4500 and AC power surge protection. Power wiring is fuse protected, with replaceable fuses. Standard features include intrusion switch for detection of door opening. Battery backup for FCM Control board and radio communications.

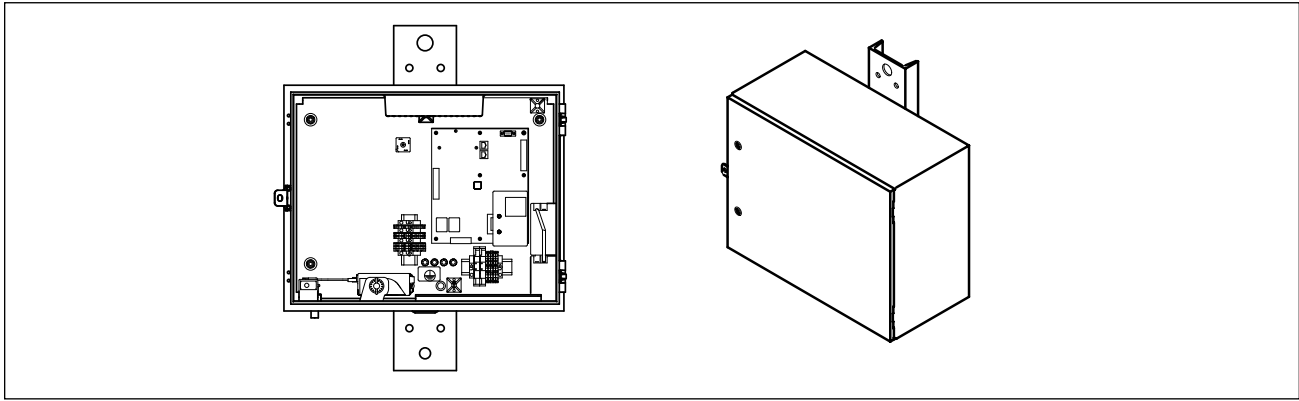
The FCTBD can also be ordered as FCTBDH and FCTBDU which includes a Vertex radio transceiver (FCTBDH = high band or FCTBDU = UHF). FSPWARE, an optional software package, enables connection to a computer to modify supplied timing or to create unique on/off patterns for control of external equipment, such as sirens. Programming options via FSPWARE include radio frequency, two-tone sequential tones/DTMF/AFSK decoding digits for security, custom audible signal tones and independent control of output relays and timing patterns for electro-mechanical sirens. Up to six control codes may be programmed and activated by any combination of two-tone sequential, DTMF, EAS, POCSAG, and digital AFSK. Four of the timing sequences can be initiated using local push buttons or remotely through dry contact closures. The use of Commander Software and SS2000+ allows remote control activation, monitoring and networking of multiple FCTBD Controllers.

The FCTBD can also be equipped with an IP interface to allow high speed connections to the siren controller. Federal Signal recommends use of Commander software to create a fully redundant siren control system. The FCTBD is an ideal choice for upgrading or retrofitting one-way controls to two-way status monitoring for use with existing electro-mechanical sirens like the Federal Signal 2001-130, Equinox, 508-128, Eclipse8 and Model 2 sirens.

FEATURES

- Two-way control, activation and status monitoring
- Four individually programmable output relays
- Six built in siren tone signals for PA/Intercom
- External inputs for sensors and activation
- Push buttons for local activation
- Internal battery back-up
- 120 or 240VAC power
- UL and cUL listed, and DNV certified

Two-Way Control and Status Monitoring (FCTBD)



SPECIFICATIONS

AC Input Voltage:	120 or 240VAC $\pm 10\%$, 60Hz 3A
DC charger/radio power:	120 or 240VAC switch selectable
Battery:	Sealed Lead Acid/12A Hr
4 Relays, contact rating:	5A @ 120/240VAC 8A @ 24VDC
Number of remote activation inputs:	4
Audio Output:	0-2V peak to peak, maximum load 8 ohms
Environmental:	
Temperature	-22°F to 149°F -30°C to 65°C
Humidity	0-98% non-condensing
Dimensions H x W x D:	19" x 23" x 11.2" (48.3 cm x 60 cm x 28.5 cm)
Net Weight:	95 lbs 43.2 kg
Shipping Weight:	155 lbs 70.3 kg

REPLACEMENT PARTS

Description	Part Number
12VDC Charger	Q20000288
12VDC Battery	Q155193A
FC+ Control Board	Q2005263B

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description	Part Number
Two-way Controller with FCMPlus Control Board and radio	FCTBD
Two-way Controller with FCMPlus Control Board and Radio, high band 148-174 MHz	FCTBDH
Two-way Controller with FCMPlus Control Board and Radio, UHF band 403-470 MHz	FCTBDU
Two-way IP-enabled Electro-mechanical Controller	FCTBD-IP

Notes:

Antenna and cable are not included with radio activation control and must be ordered separately.

Broadband radio and SmartMsg software sold separately.

OPTIONAL ACCESSORIES

Description	Part Number
Windows Programming Software (Non-digital applications)	FSPWARE
Commander® Software System, *10, 25, 255, or 512 Site License	SFCD*
Private line tone and digital coded squelch encoder and decoder	FS-PL1
Encoder and decoder (low)	FS-PL2
Hardware Controller	SS2000+
Telco Base, Landline	TB-LL
Single motor AC current sensor	SK-SM
Three motor AC current sensor	SK-3M
Single phase, 120VAC voltage sensor	SK1-120
Single phase, 240VAC voltage sensor	SK1-240
3-phase, 240VAC voltage sensor	SK3-240
3-phase, 480VAC voltage sensor	SK3-480

See Project 25 product on page 248 for optional P25 configuration accessories if desired



► Model DCFCTBD

Two-Way Digital Controller for Electro-Mechanical Sirens

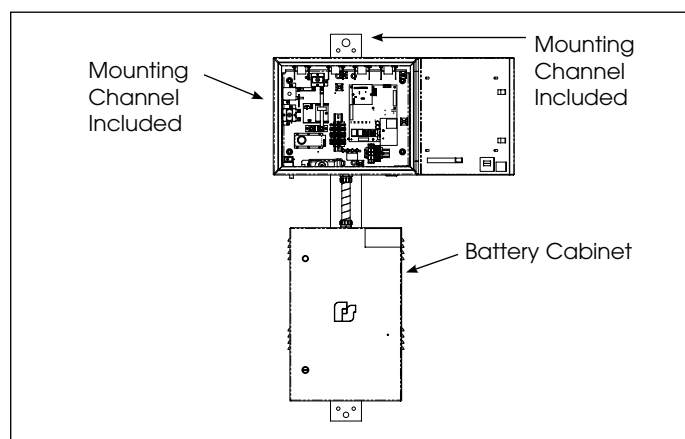
Federal Signal DCFCTBD siren controllers are two-way digital, battery-operated/back-up and status monitoring systems for use with the Federal Signal 2001-130, Equinox, 508-128 and Eclipse8 sirens. The DCFCTBD siren controller typically interfaces with off-the-shelf two-way radio transceivers and communicates to a base controller. DCFCTBD siren controllers can be used with radios utilizing single-tone, two-tone sequential, DTMF, POCSAG, AFSK, EAS and digital formats such as P25 and Tetra. The DCFCTBD controllers can be equipped with optional communications such as landline, IP, fiber, satellite, and cellular. This makes DCFCTBD siren controllers compatible with virtually any existing siren control system or communication method. There are four local inputs and four local push buttons for activation, plus a reset option.

DCFCTBD models come equipped with four independent relay outputs that can be programmed to activate with local inputs, local pushbuttons or via the communications channels. Activation codes, relay timing, and optional warning sounds are programmed into the unit through a standard RS232 serial port or over-the-air from the central control point. The DCFCTBD siren controller offers six user programmable functions in addition to the five pre-set functions (arm, disarm, report, growl test and master reset). These controllers include sensors to supply information on the following areas of operation: AC power status, communications status, low battery status, intrusion, siren activation, current intrusion, siren rotation and local activation.

F E A T U R E S

- Two-way siren controller for 48VDC Sirens
- Two-way radio control and status monitoring
- AFSK Two-way signaling format
- Simultaneous single tone, two-tone sequential, and DTMF decoding
- Able to utilize multiple communication paths for redundancy
- Controls mechanical sirens, including models 2001-130, Equinox, 508-128 and Eclipse8
- Solar options available
- Push buttons for local activation
- Landline, ethernet (IP) or radio control
- UL Listed for general signaling
- DNV Certified

Two-Way Digital Controller for Electro-Mechanical Sirens (DCFCTBD)



S P E C I F I C A T I O N S

Operating Temperature:	-22°F to 149°F	-30°C to 65°C
AC supply voltage:	120 VAC @ 4.0 Amps	240VAC @ 2.0 Amps
Battery Backup:	48VDC	
Current Draw:	+/- 10%, 50/60 Hz, maximum standby current	
DCFCTBD Power Supply:	6A @ 13.3VDC	
Battery Backup:	48VDC	
Current Draw:	< 0.2 amps in standby	
Serial Port Protocol:	RS232C 1200, N, 8, 1	
Programmable Frequency:	Power Out and Private Line options. For further details, consult the Vertex® product manual.	
EAS:	Supports standard EAS codes and wildcards	
POCSAG:	Supports binary AFSK 512 Baud numeric messages.	
4 relay outputs:	SPST	
Contact Rating:(4 relays standard)	5A @ 28VDC – 5A @ 240VAC	
Controller Dimensions H x W x D:	19.0" x 23.5" x 11.19" 482.6 mm x 596.9 mm x 284.2 mm	
Shipping Weight:		
DCFCTBD	300 lbs	136.36 kg
2001TRBP:	190 lbs	86.2 kg

H O W T O O R D E R

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description	Part Number
Two-way Controller DC Powered, no radio	DCFCTBD
Two-way Controller, Radio Controlled, DC Powered (H=high band, U=UHF)	DCFCTBDH/U
Two-way Controller, IP-enabled, DC Powered	DCFCTBD-IP

Note:

Antenna and cable are not included with radio activation control and must be ordered separately

Batteries required. Call for assistance with specific system requirements

O P T I O N A L A C C E S S O R I E S

Description	Part Number
Federal programming software (Non-digital applications)	FSPWARE
Commander® Software System, *10, 25, 255, or 512 Site License	SFCD*
240VAC operation	2001TRBP
Activation system	SS2000+
Solar powered option	Contact Federal Signal
Antenna	Contact Federal Signal

See Project 25 product on page 248 for optional P25 configuration accessories if desired

® VERTEX is a trademark of Vertex Standard LMR, Inc.

- Models I-HIOW, I-UIOW, I-HIO and I-UIO

Informer Tone-Alert Radio



Alerting the public of an emergency situation is now easier and more reliable than ever with Federal Signal's Informer I-HIO and I-UIO radio receivers. Informer units are designed for one-way radio alerting applications.

Informer Radio receivers come in either VHF or UHF-band models. Standard units decode DTMF, single-tone, and two-tone sequential signals (optionally available are units for decoding EAS/SAME or Federal Signal digital protocols). The Informer is capable of generating four separate alarm sounds that can be accompanied by a live voice message.

Informer units include a LED panel that flashes to immediately indicate transmission of an emergency alert. Other features include a 600-Ohm audio output, dual (N.C./N.O.) relay for external control, built-in diagnostics, and an LED test indicator. The receiver can be programmed to disable the "monitor" button in order to prevent end-users or unauthorized persons from listening to local-channel activity.

The Informer I-HIO and I-UIO desktop versions feature an external AC transformer for power, as well as built-in battery backup. All wiring is routed to connectors located on the back of the unit for convenient access.

Informer I-HIOW and I-UIOW receivers are designed to be wall mounted or recessed into the wall. All wiring is contained within the aluminum case, and five pre-punched, easy-to-remove conduit holes are available to facilitate wiring connections into and out of the unit. Informer I-HIOW and I-UIOW receivers include a 115/230VAC power supply pre-wired to internal terminal blocks and a built-in battery backup. These models feature mounting holes for easy top mounting of an optional Federal Signal LP1 Strobe light. Units are pre-wired to accommodate the LP1 Strobe which operates off the Informer's internal power supply.

Informer units are factory programmed for narrow-band operation and come with a one-year warranty (see owner's manual).

FEATURES

- Instant alerting and notification for emergency situations
- Rugged metal enclosure with internal wiring
- High output speaker for tone and voice notifications
- Optional EAS/SAME or Federal Signal digital protocols
- Windows®-based software for easy programming
- DTMF and two-tone decoding – standard
- Desk or wall mounting models
- External audio and control capabilities
- US ETL Listed to UL Std 60065
- Canadian ETL Listed to UL Std 60065 for I-HIOW and I-UIOW

Informer Tone-Alert Radio (I-HIOW, I-UIOW, I-HIO and I-UIO)

S P E C I F I C A T I O N S

Frequency Range (MHz) Narrowband:	150-170	405-420* 450-470
	N	N
Intermodulation Rejection per EIA-603, part 4.1.9	>-75	>-70
Adjacent Channel Selectivity per EIA-603, part 4.1.6	>-70	>-65
Spurious Response & Image Rejection (dBm) per EIA-603, part 4.1.8	>-75	>-70

*Frequency 405-420 special order requires ES-SMV. Contact factory for quote.

Reference Sensitivity ¹ : (12dB SINAD)	< 0.35 microvolts
Hum and Noise ¹ : Squelched	> -57 dBc
Unsquelched	> -37 dBc

AC Transformer (UL Listed)

Input:	I-HIOW/UIOW 115 to 230VAC, 50/60 Hz	I-HIO/UIO 108 to 128VAC, 60Hz
Operating Environment:	-22° F to 140° F	-30 to +60°C
Operating Current:	I-HIOW/UIOW 350mA Maximum	I-HIO/UIO <400mA Max

Standard Signaling Formats

Number of codes	Up to 6 activation codes, programmable
Two-Tone Sequential or Single Tone	300 Hz-3000 Hz, tolerance +/- 1.5%
DTMF	1-12 digits
Two-Tone and DTMF Decode Sensitivity	<20 dBc SINAD
CTCSS/CDCSS	

Decode with two-tone codes >400 Hz only.
Tone frequency range 36.6 to 254.1 Hz,
Tone accuracy >.05Hz
Tone decode bandwidth +/- 1.1%

	Digital, golay (23,12) 23 bit digital word
	Digital data rate 134.4 Hz nominal
Decode	Turn on time <250ms., Turn off Time <1.2s.
Acoustic Output: ² I-HIOW/UIOW	80 dBc
I-HIO/UIO	85 dBc

External Control/Audio/Antenna

Dual (N.O./N.C.) relay:	5a @ 30VDC
600 Ohm output:	50mv - 2.5vpp into 600 Ohms
Antenna:	Removable rubber duck
External Antenna Connector:	50 Ohm, BNC female

Physical Dimensions H x W x D:

I-HIOW/UIOW	8.3" x 7" x 3.3"		
	210.8 mm x 177.8 mm x 83.82 mm		
I-HIO/UIO	5" x 7" x 2-1/2"		
	127 mm x 177.8 mm x 63.5mm (10°incline)		
Weight:	I-HIOW/UIOW	3.2 lbs	1.45 kg
	I-HIO/UIO	4 lbs	1.81 kg

¹ Receiver specifications referenced to TIA/EIA 603

² Acoustic Output measured at 10' on axis in an anechoic environment.
User configurable soft-tones (approximately 55 dBc).

H O W T O O R D E R

Description	Part Number
VHF high band, 151-174 MHz - wall mount*	I-HIOW
UHF band, 450-470 MHz - wall mount*	I-UIOW
VHF high band, 151-174 MHz - desk mount	I-HIO
UHF band, 450-470 MHz - desk mount	I-UIO

There is a programming fee associated with Informers programmed at the factory. Contact your local representative for a quotation.

*Units build prior to mid-2015 do not have battery backup.

O P T I O N A L A C C E S S O R I E S

Description	Part Number
Installed EAS	I-EAS
Field installable EAS kit	I-EAS-KIT
AFSK installed	I-FSK
Field installable AFSK kit	I-FSK-Kit
Programming software	I-SW
12VDC Strobe compatible with I-HIO and I-UIO models (can be powered by internal power supply)	LP1-012*
Battery	155191A

*(A) Amber, (B) Blue, (C) Clear, (G) Green or (R) Red

Optional Signaling Formats

Federal Signal (MSK) Digital Option	1200, N, 8, 1
Synchronous, 1200 Hz mark tone, 1800Hz space tone	
Digital Decode Sensitivity	<20 dBc SINAD
EAS/SAME Option	User programmable to any EAS event codes and up to three (3) location codes
EAS/SAME Decode Sensitivity	<20 dBc SINAD



A flush mount kit is included for recessed applications as shown.

Sample Ordering Configurations for Electro-Mechanical Sirens

ONE - WAY WITHOUT RADIO

Configuration 1: 2001 Siren with one-way controller, no radio, 240VAC Powering, no batteries

2001-130 Siren Head
2001-AC AC Transformer / Contactor Enclosure for 2001 or 508 Sirens
FC Federal Controller/Timer

Configuration 2: 2001 Siren with one-way controller, no radio, battery operation

2001-130 Siren Head
DCFCB FC Controller / Timer
15500007A-02 Qty 4 - Battery sealed AGM 105Ah (MK Battery 8A31)

Configuration 3: 2001 Siren with one-way controller, no radio, battery operation

2001-130 Siren Head
2001TRBP Nominal 240VAC to 48VDC/120VAC Power Converter
DCFCB FC Controller / Timer
15500007A-02 Qty 4 - Battery sealed AGM 105Ah (MK Battery 8A31)

ONE - WAY WITH RADIO

Configuration 4: Activation Control Point

SS2000+ Digital and DTMF Control Station, Desk Mount
BSH Base Station High band Radio Package (order part no. BSU for UHF)

Configuration 5: 508 Siren with one-way control, radio, 240VAC Powering, no batteries

508-128 Siren Head
2001-AC AC Transformer / Contactor Enclosure for 2001 or 508 Sirens High band
FCH Federal Controller/Timer (order part no. FCU for UHF)
RP164 Antenna
AMB-RP164 Antenna mounting bracket for RP164
10A3 25 ft. Cable

Configuration 6: 2001 Siren with one-way control, radio, 120VAC to battery operation

2001-130 Siren Head
DCFCBH High band Federal Controller/Timer (order part no. DCFCBU for UHF)
15500007A-02 Qty 4 - Battery sealed AGM 105Ah (MK Battery 8A31) Antenna
RP164 Antenna mounting bracket for RP164
AMB-RP164 Antenna mounting bracket for RP164
10A3 25 ft. Cable

Configuration 7: 2001 Siren with one-way control, radio, 240VAC to Battery Operation

2001-130 Siren Head
2001TRBP Nominal 240VAC to 48VDC/120VAC Power Converter
DCFCBH High band Federal Controller/Timer (order part no. DCFCBU for UHF)
15500007A-02 Qty 4 - Battery sealed AGM 105Ah (MK Battery 8A31) Antenna
RP164 Antenna mounting bracket for RP164
AMB-RP164 Antenna mounting bracket for RP164
10A3 25 ft. Cable

Sample Ordering Configurations for Electro-Mechanical Sirens

TWO-WAY WITH RADIO

Configuration 8: Activation Control Point with GUI/PC and Base Radio

X-PC-22	PC with 22 inch monitor
SFCD255	Federal Commander Software (255 RTU's)
SS2000+	Digital and DTMF Control Station, Desk Mount Base
BSH	Base Station High band Radio Package (order part no. BSU for UHF)
AMB-W	Antenna Mounting Bracket, Wall

Configuration 9: 2001 Siren with two-way control, radio, 120VAC to battery operation

2001-130	Siren Head
DCFCTBDH	Two-Way Digital Controller/Decoder/Sensors (High band)
2001TRBP	Nominal 240VAC to 48VDC/120VAC Power Converter
15500007A-02	Qty 4 - Battery sealed AGM 105Ah (MK Battery 8A31)
OMNI-xx	3dB gain Omni antenna, plus cable (Order OMNI antenna that matches desired frequency range)

Configuration 10: 2001 Siren with two-way control, radio, 240VAC to battery operation

2001-130	Siren Head
DCFCTBDH	Two-Way Digital Controller/Decoder/Sensors (High band)
2001TRBP	Nominal 240VAC to 48VDC/120VAC Power Converter
15500007A-02	Qty 4 - Battery sealed AGM 105Ah (MK Battery 8A31)
OMNI-xx	3dB gain Omni antenna, plus cable (Order OMNI antenna that matches desired frequency range)

TWO-WAY WITH P25 (PROJECT 25 DIGITAL) RADIO

Configuration 11: Configuration 8: Activation Control Point with GUI/PC and P25 Base Radio (SS2000+ not required)

X-PC-22	PC with 22 inch monitor
SFCD255	Federal Commander Software (255 RTU's, minimum software version 14.5)
SFCD-IP	Federal Commander IP Software key (Cellular/P25)
BSP	P25 Station Radio Package (BSPE if digital encryption desired)

Configuration 12: 2001 Siren with two-way control, radio, 120VAC to battery operation

2001-130	Siren Head
DCFCTBDH	Two-Way Digital Controller/Decoder/Sensors (High band)
Q-FCTBDP-RADIO	APX P25 Radio Upgrade (if radio purchase not required, must purchase Q-APX-FCIK, FC)
15500007A-02	Qty 4 - Battery sealed AGM 105Ah (MK Battery 8A31)
OMNI-xx	3dB gain Omni antenna, plus cable (Order OMNI antenna that matches desired frequency range)

Configuration 13: 2001 Siren with two-way control, radio, 240VAC to battery operation

2001-130	Siren Head
DCFCTBDH	Two-Way Digital Controller/Decoder/Sensors (High band)
2001TRBP	Nominal 240VAC to 48VDC/120VAC Power Converter
15500007A-02	Qty 4 - Battery sealed AGM 105Ah (MK Battery 8A31)
OMNI-xx	3dB gain Omni antenna, plus cable (Order OMNI antenna that matches desired frequency range)

► Model MOD Series

Modulator High-Powered Omni Speaker



*Shown with
optional
QuadraFlare
lights*

Federal Signal's Modulator High-Powered Speaker Array offers the same proven technology as the original Modulator with the exception of a smaller compact chassis. Modulator provides a flat frequency response up to 2000Hz producing intense warning signals and digital voice messaging over a large area. The Modulator design enables the siren to produce a high sound level and intelligible voice communications.

The innovative omni-directional electronic Modulator speaker array consists of modules that utilize four 100 watt drivers. It also provides clear voice communication and offers warning signals which are produced by Federal Signal's UltraVoice™ electronic controller and amplifier system. Custom tones and professionally recorded voice messages for the UltraVoice controller are available and can be purchased upon request.

The Modulator High-Powered Speaker Array combined with the UltraVoice controller is ideal for community/municipal, industrial and military applications where immediate instruction is necessary. The MOD6032 and MOD6048 have been replaced by the MOD8032B, which is shorter, lighter and more compact.

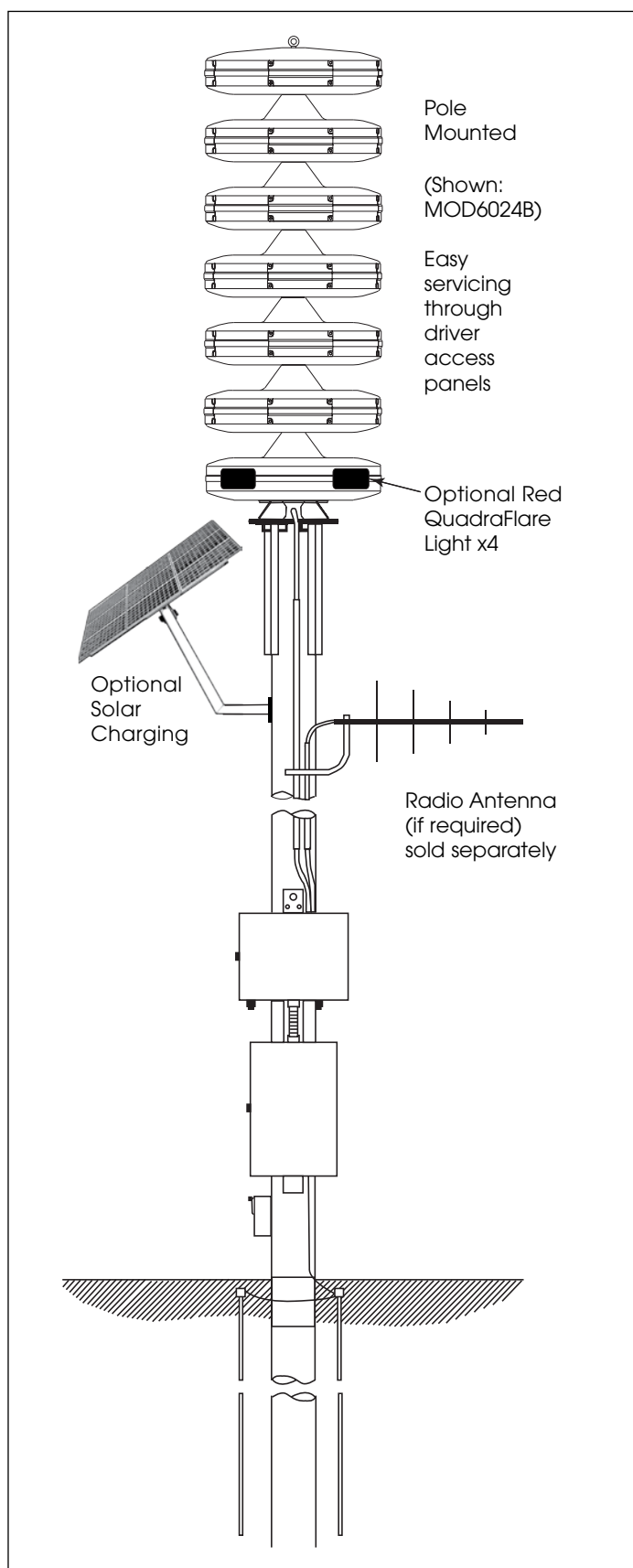
The Modulator and UltraVoice controller can be networked via radio, IP, landline, cellular and/or satellite communications. Powering is available in AC, DC, or solar. The system typically operates from batteries which are charged from either AC or Solar. Federal Signal can also provide customized solutions to fit your special applications.

FEATURES

- Light-weight, compact design
- Utilizes Federal Signal Ultravoice™ for control and amplification
- Excellent frequency response for clear voice reproduction
- 360° coverage without sound variation in horizontal planes
- Easy servicing through convenient access panels
- Anechoic chamber-certified

MODEL	ACTIVE MODULES	TOTAL WATT	DECIBELS @ 100'	EFFECTIVE RANGE @ 70 dBc	HEIGHT IN	MM	NET WEIGHT LBS	KG	SHIPPING WT LBS	KG
MOD1004B	1	400	106 dBc	1,200'	28"	71	125	56.8	264	120
MOD2008B	2	800	112 dBc	1,800'	43"	109.2	190	86.4	294	133.6
MOD3012B	3	1200	115 dBc	2,200'	57"	144.7	255	115.9	444	201.8
MOD4016B	4	1600	118 dBc	2,800'	72"	182.8	320	145.5	544	247.3
MOD5020B	5	2000	120 dBc	3,100'	86"	218.4	385	175	744	338.2
MOD6024B	6	2400	121 dBc	3,400'	101"	256.5	450	204.5	960	436.4
MOD8032B	8	3200	124 dBc	4,200'	130"	330.2	580	263.6	1392	632.7

Modulator® High-Powered Omni Speaker (MOD)



SPECIFICATIONS

Frequency Response:	200-2000Hz \pm 1dB
Color	Off-White
Paint Type	TGIC-polyester powder coat
Modulator Horn Type	Hyperbolic flare
Frequency Response	200-2000 Hz
Horizontal Coverage	360° \pm 1 dBc
Diameter	35"/88.9cm
Wind Loading @ 110mph wind velocity ¹ :	
MOD1004B	251 lbs
MOD2008B	377 lbs
MOD3012B	503 lbs
MOD4016B	629 lbs
MOD5020B	755 lbs
MOD6024B	881 lbs
MOD8032B	1133 lbs

¹ Wind loading is the calculated force of wind at 110mph (shoreline), exposure D (flat, unobstructed coastal areas) on frontal area 4.64 ft. per American National Standards Institute A58.1 "Minimum design loads for buildings and other structures."

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Specify speaker array model number – each speaker array model must be ordered with a specific corresponding UV and Amplifier.

Speaker	Controller ¹
MOD1004B	UV + 1 UV400
MOD2008B	UV + 2 UV400
MOD3012B	UV + 3 UV400
MOD4016B	UV + 4 UV400
MOD5020B	UV + 5 UV400
MOD6024B	UV + 6 UV400
MOD8032B	UV + 8 UV400

¹ Controllers available in Radio, IP, and Landline.

Note: 40 feet of cable is supplied with siren. Extension cable in 10 foot increments is also available. Mounting the UV controller further than 100 feet is not recommended (further mounting may decrease power output).

Contact Customer Support for pricing regarding the optional QuadraFlare lights

See page 50 for the Solar Panel option.

REPLACEMENT PARTS

Description	Part Number
Driver, 100 watt	K8570063A



► Model DSA

Directional Speaker Array

Federal Signal's Model DSA Directional Speaker Array provides excellent voice and tone reproduction and is ideal for overcoming high levels of industrial noise.

Design flexibility allows the user to combine up to four speaker arrays; each array will hold from two to six re-entrant speakers. Speakers have a 70° horizontal angle of dispersion, accommodating specific sound output patterns. (When vertical stacks are placed 90° apart, a 180° horizontal coverage is possible.)

The Model DSA mounting kits allow for multiple speaker arrays to be mounted on the same pole at 90° increments. The downward tilt can be adjusted by 15°. The mounting flexibility of this system allows the speakers to be pointed directly at a targeted area for more concentrated sound output.

A DSA consists of a corrosion resistant aluminum frame with fiberglass projectors and stainless steel mounting hardware. Each speaker contains a high-efficiency 100 watt driver.

Amplification, tone generation and signal timing are provided by the Model UV controller, purchased separately.

Ideal for outdoor industrial plant warning, the Model DSA speaker array allows sound coverage to be customized to each site, preventing wasted sound in and around the plant. The Model DSA provides better speech intelligibility within a coverage zone than omni-directional speaker arrays.

FEATURES

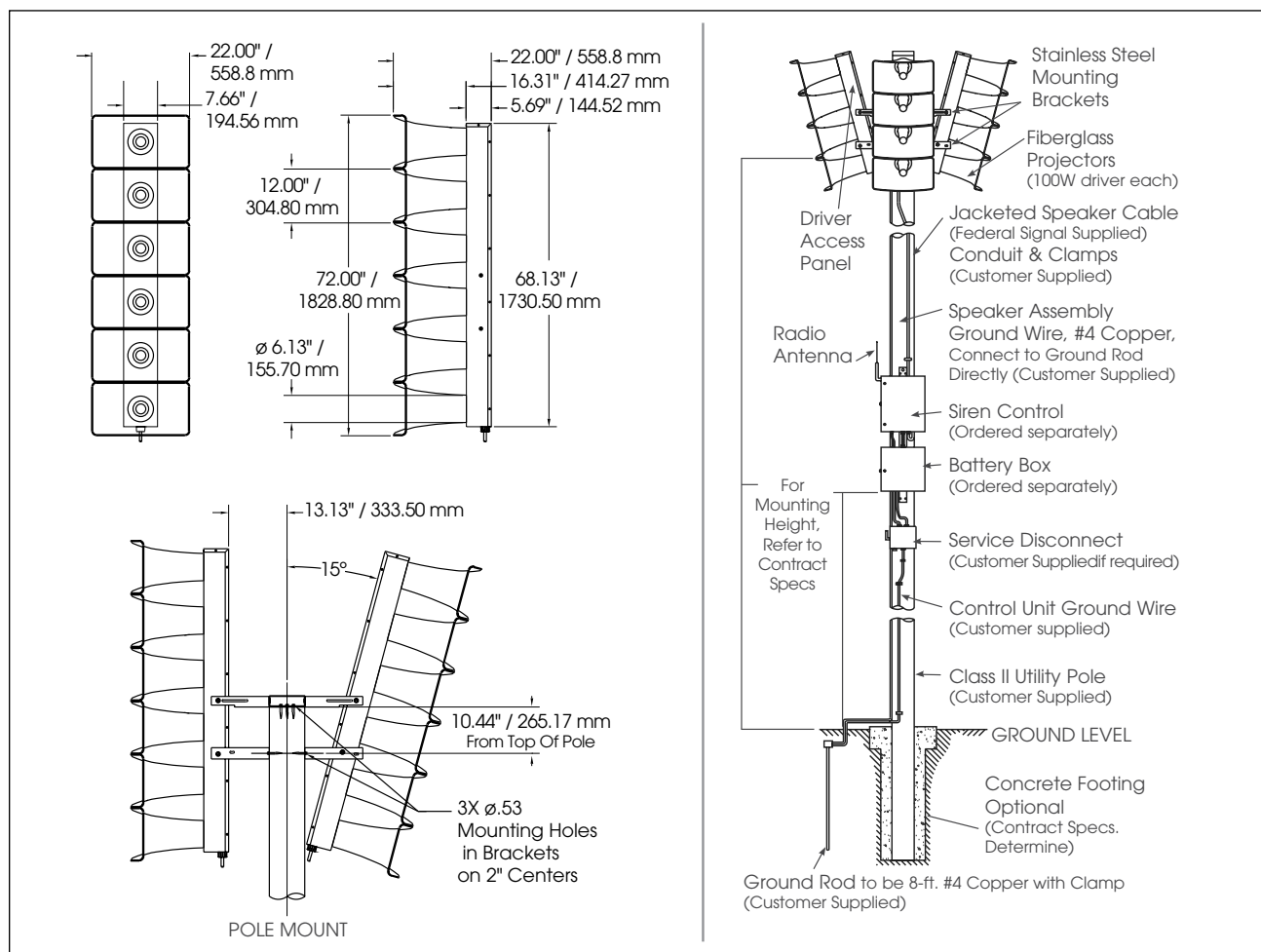
- Overcomes ambient noise of industrial environments
- Provides maximum speech recognition and tone reproduction
- Produces 111 dBc to 121 dBc @ 100'
- Two mounting kits available
- UL and cUL Listed

MODEL	NO. OF 100W SPEAKERS	TOTAL WATT	DECIBELS 100' ²	EFFECTIVE RANGE	HEIGHT IN MM	NET WEIGHT LBS KG	SHIPPING WT LBS KG
DSA2	2	200	111 dBc	1,700'	25 635	43 19.5	127 57.6
DSA3¹	3	300	115 dBc	2,200'	46 1168.4	80 36.2	130 59
DSA4	4	400	117 dBc	2,600'	48 1219.2	95 43.1	175 79.3
DSA5¹	5	500	119 dBc	3,000'	70 1778	110 49.9	220 99.7
DSA6	6	600	121 dBc	3,400'	72 1828.8	125 56.7	230 104.3

¹ Special order, consult factory

² Based on far field measurements.

Directional Speaker Array (DSA)



SPECIFICATIONS

Color: Black projectors with Off-White Housing
 Paint: TGIC – Polyester Powder Coat, highly corrosion resistant
 Frequency Response: 200-2000Hz

REPLACEMENT PARTS

Description	Part Number
Driver, 100 watt	K8570063A

Considerations for system configuration:

- The DSA speaker array is used in conjunction with the UV controller. The UV houses the amplifiers that drive the DSA speaker array. Each DSA is made up of individual 100 watt speakers. FOR EXAMPLE: A DSA4 has four 100 watt speakers.
- Multiple DSA arrays can be controlled by a single UV as long as the total wattage meets or exceeds the total wattage required by the DSAs. The total watt required is the sum of all 100 watt speakers from each DSA.

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description	Part Number
2 speaker assembly	DSA2 ¹
3 speaker assembly (Special order, consult factory)	DSA3 ¹
4 speaker assembly	DSA4 ¹
5 speaker assembly (Special order, consult factory)	DSA5 ¹
6 speaker assembly	DSA6 ¹
Mounting Kit:	
Wall mount for one vertical support	DSAMK1
Mounting kit for one to four vertical stack(s) 90° or 180° apart	DSAMK4
Mounting kit for steel poles, one vertical stack	DSAMKSP
4.5" mounting brackets for steel pole, bracket for one vertical stack	DSAMKSPB45
2.375" mounting brackets for steel pole, bracket for one vertical stack	DSAMKSPB23

¹ 40 feet of cable is supplied with siren. Extension cable in 10 foot increments is also available. Mounting the UV controller further than 100 feet is not recommended (further mounting may decrease power output).

Controller and Communications – See price list for controller and powering options.

Batteries not included.



► Model UV

UltraVoice® Electronic Siren Controller

The Federal Signal UltraVoice® controller combines micro-processor based system control with highly efficient amplifiers to deliver optimized tones and voice capability for electronic sirens. The UltraVoice controller can generate and amplify single or dual frequency warning tones and comes with seven pre-set warning signals. In addition, the controller has been designed specifically to reproduce high quality live or pre-recorded-voice capability.

The controller includes a NEMA 4X cabinet housing the control module, up to eight 400 watt amplifiers, and a NEMA 3R battery cabinet. The unit may be equipped with a plug-in programmable receiver module, utilizing DTMF or two-tone sequential activation protocols. A digital voice option can be added by plugging in a single mini SD card which can store up to 250 messages.

Two-way Status System

The UltraVoice Controller can also be a two-way communication system. A transceiver allows the unit to report status back to a central control point utilizing DTMF or the Commander Software System protocol. Two transceiver ports are available for radio repeating or when using multiple frequencies.

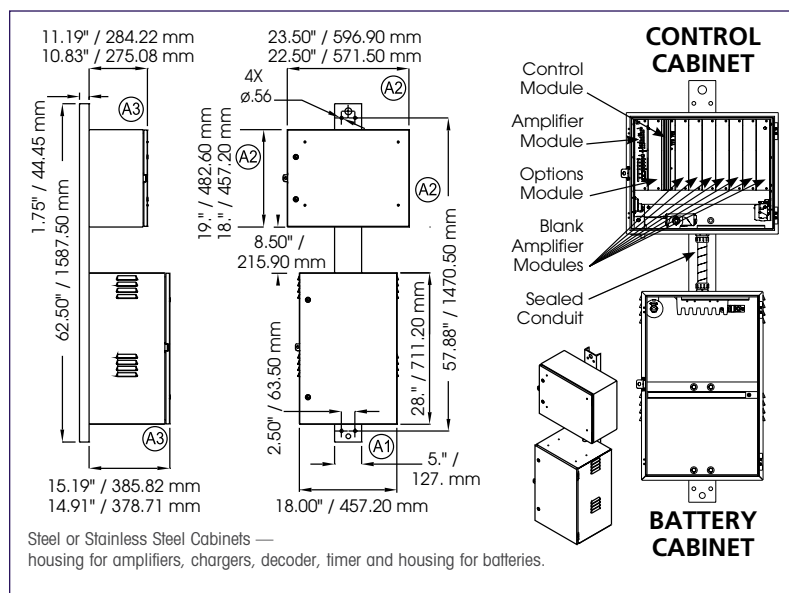
The two-way option provides information on the following conditions:

- AC power
- Battery voltage
- Charger operation
- Activation current
- Amplifier voltage and current
- Quiet test (Speakers & Amps)
- Signal A
- Signal B
- Mode of operation
- Intrusion
- Local activation
- SD card status

F E A T U R E S

- 7 built-in warning signals
- Up to 250 stored message, 17 hours of available audio
- Decodes single-tone, two-tone, DTMF and AFSK digital
- Quiet test standard
- Up to 8 controller zones
- Stackable siren functions
- Distinct dual tone capacity
- Highly efficient pulse width modulated amplifiers
- Windows®-based programming software (optional)

Ultravoice® Electronic Siren Controller (UV)



HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description	Part Number
Siren control, two-way digital, no radio	UVTD
Siren control, two-way digital, VHF (136-174), UHF (403-470)	UVTDH, UVTDU
IP-enabled, two-way electronic controller (broadband radio and SmartMsg software sold separately)	UVTD-IP
Siren control, two-way, landline	UVTD-LL

SPECIFICATIONS

Operating Temperature**:	-22°F to 149°F	-30°C to 65°C
Input Voltage:	120/240VAC ±10%, 50/60Hz single-phase (two separate models)	
Input Current:	7 A Max.	
Battery Input Voltage:	24 Volts (nom.)	
Operating Voltage:	24VDC	
Standby Time:	> 7 days	
Continuous Signaling Time:	30 min.	
Control Module:		
Signal Duration (auto reset):	3 min. max	
Microphone Input Impedance:	10k Ohms	
Audio Distortion:	1% THD max.	
Maximum Load:	600 Ohms	
Contact Closure:	(min) 500ms <2k Ohms	
Amplifier Module:		
Frequency Response:	(300 to 3 kHz)	±3dB (ref. 1kHz)
Output Voltage (Tone and PA): (to speaker drivers)		70 Vrms (nom.)
Input Impedance:	(per amplifier)	100k Ohms
Enclosures:		
Control Cabinet:	Type 4 or 4X	
Battery Cabinet:	Type 4 (vented)	

** The siren can operate throughout this temperature range provided the battery temperature is maintained at 0°F/-18°C or higher.

Standard Tones

Tone	A/B Tone Frequency Range	Sweep Rate (seconds)
Wail	400/480-850/1020	13.0
Pulsed Wail	400/480-850/1020	1.5 / 13.0
Alternate Wail	400/480-850/1020	1.5/13.0
Steady	850/1020	N/A
Pulsed Steady	850/1020	1.5
Alternate Steady	850/1020	1.5

OPTIONAL ACCESSORIES

Description	Part Number
Digital voice mini SD card, 250 messages, 17 hours	DVSD
Windows® programming software (Two-tone & DTMF)	FSPWARE
Commander® Software System, *10, 25, 255, or 512 Site License	SFCD*
400 watt amplifier, required with UV controllers	UV400
Telco Base, Landline	TB-LL
Two-way DTMF programming	ES-PROG-DTMF
210-264 VAC Transformer/Rectifier	UVTR
Battery Requirements: Customer must provide necessary batteries. Call for assistance with specific system requirements.	

See Project 25 product on page 248 for optional P25 configuration accessories if desired

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► Model UVIC

UltraVoice® Indoor Controller

The Federal Signal UltraVoice® Indoor Controller, Model UVIC, is designed to deliver clean, clear, amplified audio to a network of speakers (sold separately), configured for indoor notification or evacuation. The UltraVoice Indoor Controller has been designed for high quality reproduction of live or pre-recorded voice and tone, providing the ability to automate testing and emergencies.

The UVIC is housed in a single NEMA1 style cabinet, with provisions for up to two 400 watt amplifiers (sold separately). Each controller requires 120VAC and contains two sealed lead-acid batteries, providing over 30 minutes of operation in the event power has been lost. The UVIC can be activated by land line, radio or IP from a remote location. Landline activation can initiate one of the 8 onboard functions by connecting a momentary dry contact closure (customer supplied) to the appropriate pc board mounted terminal block. These functions can contain a combination of tone and pre-recorded voice or Public Address. Public Address is available from the supplied microphone located inside the controller. If Radio Control of the UVIC is desired, an optional Federal Signal Encoder Model SS2000+ and base station radio (approved radio license required at time of order) must be added to the control package and is typically located where administrative control and activation resides. In either configuration, each function will remain active for 3 minutes as standard.

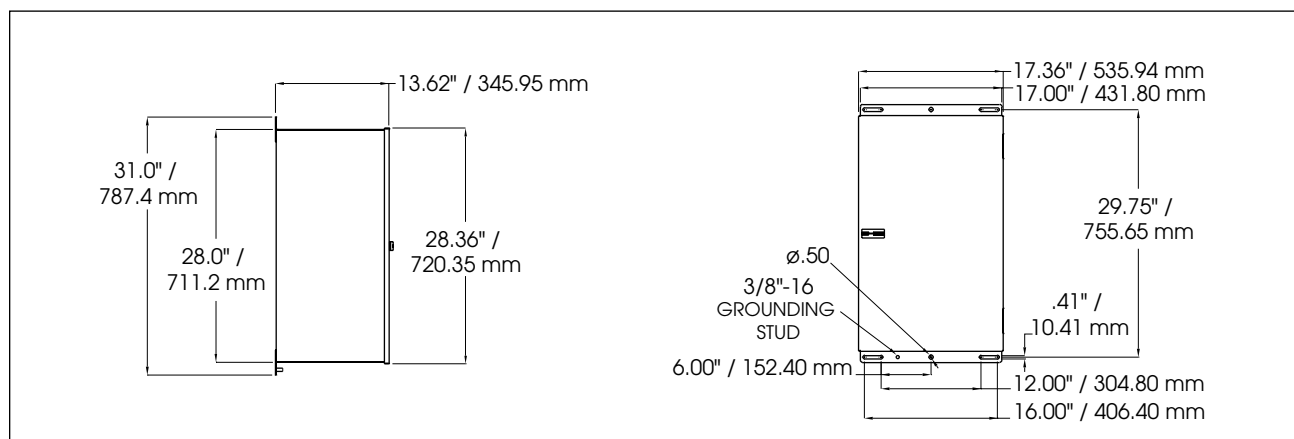
The UVIC controller is also compatible with our Commander® Software System status monitoring and activation software to “point and click” activation and local indication of alarms or fault conditions. Available functions to be displayed on a computer screen or captured to a database or printer are: AC Power, Battery Voltage, Charger Operation, Activation Current, Amplifier Status, Quiet Test, Intrusion and Local Activation.

Options: Ultravoice units may be equipped with a programmable RF receiver for remote control using MSK or DTMF protocols. Federal Commander Windows based software provides command and control for UltraVoice two way products

F E A T U R E S

- Landline, Ethernet (IP) or Radio Control w/Two-way Status Monitoring
- Public Address
- Seven Standard Tones
- 70 Vrms Audio Output Standard (25 Vrms optional)
- 128-Bit Encryption
- 4 Programmable Relays, 600-Ohm, Line-level and 33-Ohm Audio Outputs (with optional UVARM)
- Type 1 Enclosure
- Up to 250 Stored Messages, 17 Hours of Available Audio
- Batteries and Local Microphone Included
- Line Supervision of Distributed Appliance Network
- Optional Windows Based Activation and Status Monitoring Software
- UL and cUL Listed

Ultravoice® Indoor Controller (UVIC)



SPECIFICATIONS

Operating Temperature:	-22°F to 149°F	-30°C to 65°C
Input Voltage:	120 or 240VAC (UVIC240) +/- 10%, 50/60 Hz Single-phase	
Input Current:	5A AC, 45A DC Max	
Operating Voltage:	24VDC	
Standby Time:	3 Days (with 5 minutes full signal reserve)	
Continuous Signaling Time:	30 minutes	
Audio Output (UV400):	70 Vrms (nominal)	
Dimensions H x W x D:	31" x 17.36" x 13.62" (787.4 mm x 440.9 mm x 345.9 mm)	
Net Weight: (no amplifiers)	64.55 lbs	29.28 kg
Shipping Weight:	200 lbs	90.7 kg

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description	Part Number
Indoor Controller, No Radio	UVIC
Indoor Controller, Two-way VHF (136-174MHz)	UVICH
Indoor Controller, Two-way UHF (403-474MHz)	UVICU
Indoor Controller, IP-enabled*	UVIC-IP
Indoor Controller, Landline	UVIC-LL
Indoor Controller, 240VAC, No Radio	UVIC240

*Requires IP Networking Software

REPLACEMENT PARTS

Description	Part Number
Battery, Sealed, AGM, 12VDC	Q155197A

OPTIONAL ACCESSORIES

Description	Part Number
Digital voice mini SD card, 250 messages, 17 hrs.	DVSD
Amplifier, 400 watt	UV400
Digital Voice Recording Fee	DVR
Commander® Software System, *10, 25, 255, or 512 Site License	SFCD*
Telco Base, Landline	TB-LL
UltraVoice Audio Relay Module Balanced 33-Ohm output: Adj. from 0.2-1.9 Vrms Balanced 600-Ohm output: Adj. from 0.2-3.0 Vrms or -12 to +11 dBA Single Ended Line-Level: Adj. from 0.2-3.0 Vrms Relay Outputs: 4 programmable relays rated 30VDC, 15A	UVARM
Step-down transformer, 70-25 Vrms (Note: 25 Vrms step down transformer occupies one amplifier slot making the UVIC capable of a maximum of 400 watt in this configuration.)	UVIC25ST
Wall mounted speaker strobe	ENWSSPA
Wall mounted strobe	ENWSTPA
Ceiling mounted strobe	ENCSTA





► Model UVRI

UltraVoice® Remote Interface Indoor/Outdoor Controller

The Federal Signal UltraVoice® Remote Interface (UVRI) unit is a remote terminal unit (RTU), specifically designed to provide remote control and status monitoring of an individual buildings fire alarm panel, mass notification panel, or public address system. The UVRI establishes a communication link between an isolated building unit and its mass notification system into our Federal Commander Digital Control System, creating a fully integrated indoor and outdoor Mass Notification System.

The UVRI's primary application is to provide a communication bridge to allow a public safety official or anti-terrorism officer the ability to expand their alerting and notification capabilities into a municipal wide, campus-wide, or base-wide notification system solution. In addition, the UVRI also provides the added flexible capability to interface self amplified speakers and create additional notification directly from the UVRI unit itself.

The UVRI design is based on the field proven UltraVoice product line, which includes our UltraVoice Controller and UVIC products. As with all of our UltraVoice products, the UVRI includes as a standard feature an eight minute digital Voice chip. The UVRI also offers the unique capability for a remote operator to record and broadcast urgent message notifications. When local control and activations are required, the UVRI provides an easy to use local user interface with local push button control for seven control functions and a local microphone input for live voice announcements.

The UVRI is housed in a non-metallic indoor/outdoor NEMA 4X/UL50 rated enclosure.

The UVRI is a two-way digital communication unit, which, in its standard configuration, includes a Motorola Vertex VX-4500 transceiver for wireless communication back to the Federal Commander Digital System. However, the UVRI all supports a variety of other communication mediums including: Landline, Ethernet, and Satellite. The UVRI utilizes secure digital data transfer methods via 128-bit encryption to ensure no malicious or accidental operation of the system. Our two-way status monitoring provides information on the following conditions:

AC power, battery voltage, enclosure intrusion, charger, local activation, and remote system operation.

F E A T U R E S

- Integrates to existing fire alarm panel or public address system.
- Reliable mass notification
- Radio, Landline, Ethernet Control
- Two-way communication and status monitoring
- 128-bit Encryption
- Seven standard warning signals

UltraVoice® Remote Interface Indoor/Outdoor Controller (UVRI)

S P E C I F I C A T I O N S

Operating Temperature ¹ :	13°F to 140°F	-25°C to 60°C
Humidity:	0-98% non-condensing	
Electrical Input Current:	115/230VAC 2.2/1.2 A	
Battery Voltage:	10-14VDC, 13.7 volts (nom.)	
Battery Current:	< 260 mA standby current	
	<300 mA during a function	
	< 7A during radio transmit	
Standby Time:	Greater than 24 hours with Vertex VX-4500 transceiver	
Signaling Formats:		
Number of codes	Up to 50 activation codes maximum	
Number of functions allowed stacked under each code	Up to 20	
Two-Tone Sequential or Single Tone	282 Hz - 3000 Hz	
	0.5 sec (A) - .25 sec (B) minimum to 8 sec maximum	
DTMF	3 to 12 digits standard	
	50 ms/50 ms timing or greater	
FSK:		
Baud rate	1200 bps	
Modem type	MSK (minimal shift key)	
Mark frequency	1200 Hz	
Space frequency	1800 Hz	
Error checking	16 bit CRC	
EAS:		
Modem Tones	AFSK, 520.83 baud	
	2083.3 Hz and 1562.5 Hz	
POCSAG:	Supports Binary frequency shift keyed, 512 Baud numeric messages.	
Cabinet Dimensions H x W x D:	16" x 15" x 8-3/8"	
	(406 mm x 381 mm x 213mm)	
Shipping Weight (including battery):	29.6 lbs	13.43 kg

¹ The UVRI can operate throughout this temperature range provided the battery temperature is maintained at -18°C or higher.

² The UVRI housing carries a NEMA 4X / UL50 rating.

H O W T O O R D E R

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description	Part Number
Remote Interface unit, No Radio	UVRI
Remote Interface unit, VHF Band Transceiver (136-174 MHz)	UVRIH
Remote Interface unit, UHF Band Transceiver (403-470 MHz)	UVRIU
Remote Interface unit, Landline Control	UVRI-LL
Remote Interface unit, Ethernet Control	UVRI-IP

O P T I O N A L A C C E S S O R I E S

Description	Part Number
Commander® Software System, *10, 25, 255, or 512 Site License	SFCD*
Wall mounted speaker strobe	ENWSSPA
Wall mounted strobe	ENWSTPA
Ceiling mounted strobe	ENCSTA



EN-WSSPA



EN-WSTPA



EN-CSTA

► Model UVLOC

UltraVoice® UVLOC Local Operating Console



The Federal Signal UltraVoice® Local Operating Console (UVLOC) is an easy to use remote user interface for indoor and outdoor alert and notification systems. The UVLOC provides a system operator, building inhabitant or facility personnel, an activation point that emulates the functions and capabilities of the UltraVoice controller series. The UVLOC offers the capability to: activate seven tone or pre-recorded digital voice messages, record/play a live voice message, and conduct live public address (PA) announcements. The UltraVoice Local Operating Console is ideal for providing multiple activation points in an Indoor Mass Notification System.

The UVLOC is rated for Indoor use and can be surface or recessed mounted. Up to ten UVLOC's can be easily interfaced into an UltraVoice controller, as each UVLOC is hard-wired utilizing standard CAT5 cable and battery operated from its respective UV controller. The ability to provide up to ten remote activation points offers flexibility in large facilities while battery operation increases the system reliability by insuring operation when AC power fails.

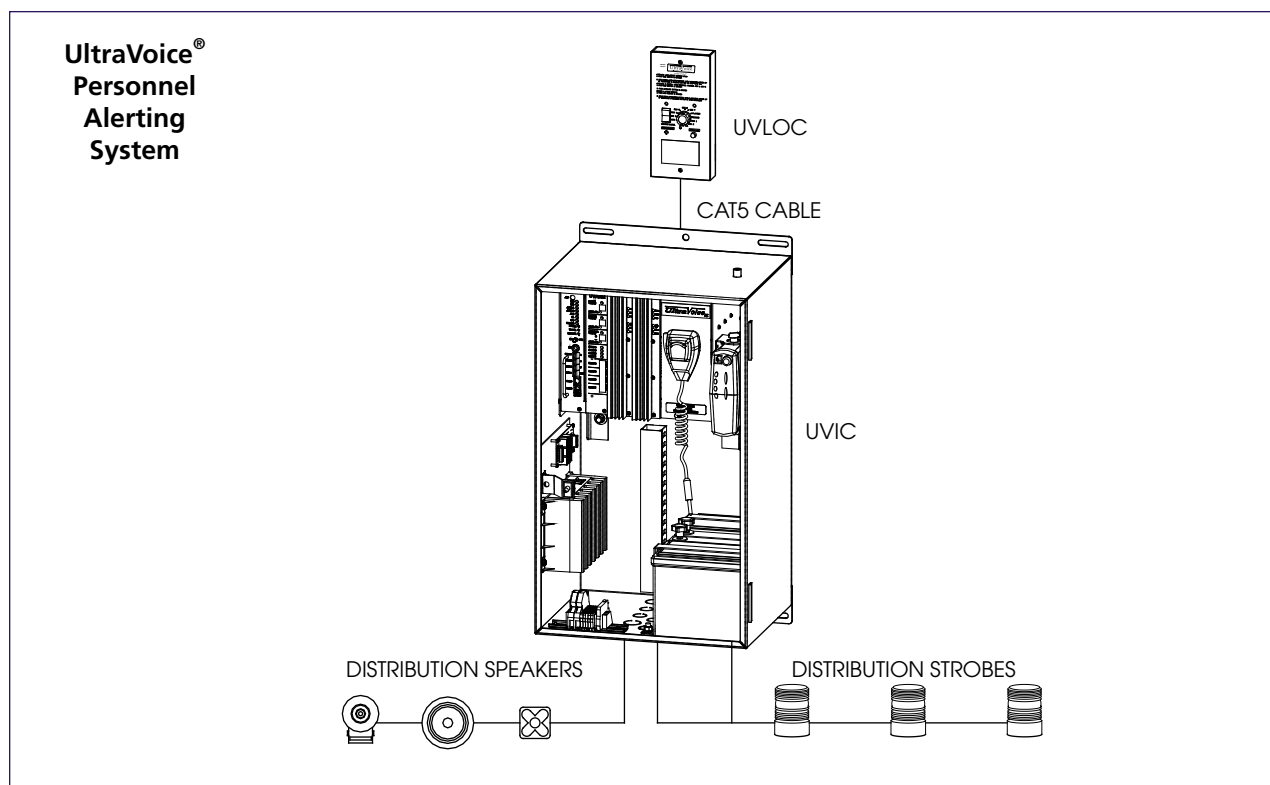
Outfitted with onboard LED's, the UVLOC indicates when the unit is armed and powered. In addition, arming the UVLOC signals the Federal Commander Digital System, alerting operators that the unit has been activated for use.

Designed to enhance "all hazard" warning capabilities, the UVLOC provides increased system flexibility, redundancy, and reliability, making it a necessary component to any alert and notification system.

FEATURES

- Battery operation
- On-board noise cancelling microphone
- Provides alarm status when armed
- 7 messages, plus play and record capability

Ultravoice® Local Operating Console (UVLOC)



SPECIFICATIONS

Operating Temperature: Indoor use, non condensing humidity
-22°F to 149°F -30°C to 65°C

Local Operation Console Operating Voltage: 20-32 VDC

Operating Current: <25 mA

Local Operating Console-Interface Module: 20-32 VDC

Operating Current: < 50 mA

Audio Output: 600 Ohm balanced, adjustable
700mVpp to 5Vpp

Installation Specifications:

Interface Cable Type CAT5, 4 pairs

Maximum distance between UVLOC and UV Controller
Approx. half mile of cable, <=200 Ohms of cable

Maximum# of UVLOC's per UV Controller
(10) (external wire management required)

Dimensions H x W x D: 10" x 4.75" x 3"
254 mm x 120.65 mm x 76.2 mm

HOW TO ORDER

**Contact our Federal Signal Sales Engineers
to design a system that meets your specific
requirements.**

Description	Part Number
Maximum of (10) units can be interfaced to a UltraVoice Siren Controller (UV) or UltraVoice Indoor Controller (UVIC)	UVLOC
One (1) Interface module must be ordered per UV or UVIC	UVLOC-IM

*Cabling is not included with any mode



- Models EN-WSSPA, EN-WSTPA and EN-CSTA

Speakers & Strobes Emergency Notification

Wall Mounted Speaker Strobe – The wall mounted speaker strobe combo is UL 1638 and 1480 compliant and listed for the purpose of life safety and property protection. The strobe utilizes a Xenon flash tube which generates a high-intensity light visible from all sides with a fixed candela rating of 15/75. This device offers a choice of field selectable power taps of 1/8, 1/4, 1/2, 1, 2, and 4 watts for use with either 25 Vrms or 70.7 Vrms audio amplifiers. The frequency range of the speaker is 400-4000Hz. This device is suitable for line supervision. This device can be mounted to either the EN-SMBS (Surface Mounting Box, Square) or a 4" square X 2 1/8" deep metallic back box.

Wall Mounted Strobe – The wall mounted strobe with amber lens offers a dependable visual alarm for warning and emergency notification. Applications include severe weather, evacuation, emergency response, etc. This device runs on 24VDC. The candela options are 15, 30, 60, 75, and 100. These options are field selectable and tamper resistant. A die cast 4" mounting bracket is included which incorporates the popular Super-Slide™ feature that allows the installer to easily pre-wire the system and test for supervision. The product also features a locking mechanism that secures the product to the bracket without showing any screws. Installers can check the voltage drop, current draw and match it against the blue print with the included Checkmate™ Instant Voltage Verification feature. This wall strobe is UL1638 and UL464 listed and are warranted for three years from the date of purchase.

Ceiling Mounted Strobe – This ceiling mounted strobe offers dependable visual alarms for warning and emergency notification. This device runs on 24VDC. The candela options are 15, 30, 60, 75, and 100. These options are field selectable and tamper resistant. A standard 4" mounting plate is included which incorporates the popular Super-Slide™ feature that allows the installer to easily pre-wire the system and test for supervision. The product also features a locking mechanism that secures the product to the bracket without showing any screws. This wall strobe is UL1638 and UL 464 listed and are warranted for three years from the date of purchase. Mounting option: EN-SMBR (Surface Mounting Box, Round)

FEATURES

- Campus, Military and Indoor Mass Notification
- UL listed
- Amber or Clear lens
- Plain housing or with 'Alert' text for additional notification
- Synchronization of strobe lights

Speakers & Strobes Emergency Notification (EN-WSSPA, EN-WSTPA and EN-CSTA)

S P E C I F I C A T I O N S

Ceiling or Wall Mounted Speaker

This ceiling or wall mounted speaker is designed to meet code requirements for audio voice communications. This device can be mounted to either the EN-SMBS (surface mounting box, square) or a 4" square X 2 1/8" deep metallic back box. This speaker provides a 25 or 70.7 Vrms speaker with field selectable power taps of 1/8W, 1/4W, 1/2W, 1W, 2W or 4W. It offers high quality dBA output (Intelligible). The Frequency Range is 400-4000Hz.

Synchronization Module

The synchronization module is designed to provide an easy way to synchronize multiple strobe light flashes using only two wires in instances where a synchronized flash is required.

- Easy to Install
- Rated for 3 Amps continuous current and 5 Amps surge or inrush current
- Synchronizes to 1Hz Flash Rate
- Operates 1 Class 'A' circuit or 2 Class 'B' circuits at 3 Amps per circuit.
- UL 464 and UL 1971 Listed
- CAN/ULC S526-M87/S524-01 Compliant
- This module comes with its own back box and cover

H O W T O O R D E R

Description

Part Number

Wall Mounted Speaker Strobe

Wall Speaker/Strobe, Alert, Amber lens

EN-WSSAA

Wall Speaker/Strobe, Plain, Amber lens

EN-WSSPA

Outdoor Wall Speaker Strobe,

Alert, Amber lens

EN-OWSSAA

Wall Mounted Strobe

Wall Strobe, Plain, Amber lens

EN-WSTPA

Wall Strobe, Alert, Amber lens

EN-WSTAA

Wall Strobe, Plain, Clear lens

EN-WSTPC

Wall Strobe, Alert, Clear lens

EN-WSTAC

Synchronization Module

Synchronization Module, 3 Amps

EN-SM

O P T I O N A L A C C E S S O R I E S

Description

Part Number

Surface Mounting Box, Round

EN-SMBR

Surface Mounting Box, Square

EN-SMBS

Ceiling Mounted Strobe

Ceiling Strobe, Amber lens

EN-CSTA

Ceiling Strobe, Clear lens

EN-CSTC

Ceiling or Wall Mounted Speaker

Ceiling/Wall Speaker, 25 Vrms or 75 Vrms

EN-CWSP



EN-SM



EN-SMBR



EN-SMBS

- Model PVS240W-24 and PVS240W-48

Solar Power Option for Outdoor Sirens

The Federal Signal Solar option provides an all inclusive solar powering option for all outdoor sirens. Solar powering of batteries is an efficient and economical method of powering remote sirens, alerting or control equipment. Solar powering can be engineered for any application. Applications include, but are not limited to, remote tsunami sirens, muster stations and tornado sirens. The PVS240W-24 and PVS240W-48 provide 240W of power for charging of batteries in 24 or 48VDC applications. Both systems are equipped with solar regulators for accurate control, protection and monitoring of the solar panels. Both kits utilize four 60W highly efficient solar panels, each with junction boxes to allow ease of wiring. The mounting hardware is aluminum for light weight and high strength, able to withstand wind loads up to 170 mph. Thirty feet (30') of cable is provided to allow wiring from the panels to the battery cabinet. The solar regulators support gel, sealed or flooded batteries with temperature compensation to extend battery life and improve system performance. Federal Signal will determine the proper direction and tilt for each solar application based on location. Gel batteries are recommended for solar applications.



FEATURES

- Enables remote / unwired deployment of sirens
- Solar power provides continuous charging of batteries
- Radio connectivity for two-way activation and control
- Eliminates expensive trenching of power to remote sites
- Supports mechanical or electronic sirens
- Allows 25 to 60° of tilt for solar optimization
- 24 or 48VDC operation
- Wind loads up to 170 mph

HOW TO ORDER

Consult the factory for ordering details.

Description

Solar Power Option UltraVoice (UV)

Solar Power Option Federal Controller (FC)

Part Number

PVS240W-24

PVS240W-48

Sample Ordering Configurations for Electronic and Giant Voice Sirens

T W O - W A Y W I T H R A D I O

Configuration 1: Activation Control Point with GUI/PC and Base Radio

X-PC-22	PC with 22 inch monitor
SFCD255	Federal Commander Software (255 RTU's)
SS2000+	Digital and DTMF Control Station, Desk Mount
BSH	Base Station High band Radio Package (order part no. BSU for UHF)
AMB-W	Antenna Mounting Bracket, Wall

Configuration 2: Modulator, Omni-directional electronic speaker array

MOD1004B	400W Modulator Siren
UVTDH	High Band UV Two-way Controller
UV400	Qty 1 – 400W Amplifier
15500007A-02	Qty 2 to 4 – Battery sealed AGM 105Ah (MK Battery 8A31)
OMNI-xx	OMNI antenna, plus cable (Order OMNI antenna that matches desired frequency range)

Configuration 3: Modulator, Omni-directional electronic speaker array

MOD8032B	3200W Modulator Siren
UVTDH	High Band UV Two-way Controller
UV400	Qty 8 – 400W Amplifier
15500007A-02	Qty 4 – Battery sealed AGM 105Ah (MK Battery 8A31)
OMNI-xx	OMNI antenna, plus cable (Order OMNI antenna that matches desired frequency range)

Configuration 4: DSA, Directional Speaker Array

DSA4	Qty 2 – 400W High-Powered Directional Speaker Array
UVTDH	High Band UV Two-way Controller
UV400	Qty 2 – 400W Amplifier
15500007A-02	Qty 4 – Battery sealed AGM 105Ah (MK Battery 8A31)
OMNI-xx	OMNI antenna, plus cable (Order OMNI antenna that matches desired frequency range)



► Model I-IP

Informer-IP, Two-Way IP-enabled Intercom and Alarm Initiation Point

Federal Signal's longstanding Informer is now IP-enabled. The Informer-IP can be used as a warning device, a two-way intercom and an alarm initiation point that connects to the Commander® On-Premise System.

The Informer-IP's internal speaker and microphone provide clear two-way intercom voice communications. Incoming warnings and alerts can be live voice, pre-recorded messages or tone files. Up to six different predefined alert events can be triggered from the Informer-IP — two from the device and four from the key fob. Alert messages initiated from the Informer-IP or key fob can be sent to emergency personnel via email, SMS, computer pop-up, phone, handheld radios; and can also be used to activate other Informer units and sirens.

The Informer-IP features an audio output for connecting public address systems, two relay outputs for controlling strobes or other devices, and an RS232 port for driving a scrolling message display in order for the same message that is heard over the speaker to simultaneously be viewed on the display. The Informer-IP provides the same tone and voice alerts available with Federal Signal's UltraVoice™ outdoor siren controllers for seamless indoor and outdoor mass notification.

The Informer-IP I-IP-IO model is designed for desktop use. Power options include an external AC transformer or PoE (Power over Ethernet). All wiring runs to accessible connectors on the back of the unit for quick and easy installation.

Also available is the Informer-IPW, which is designed to be wall mounted or recessed into the wall. All wiring is contained within an aluminum case and five pre-punched, easy-to-remove conduit holes are available to facilitate wiring connections into and out of the unit. The case has top mounting holes and is pre-wired for the LP1 strobe option.

Schools, hospitals, police and fire stations, government facilities and industrial plants will find that the Informer-IP provides an unmatched value for their indoor alerting and notification needs.

FEATURES

- Two-way alerting and intercom capabilities
- Power over Ethernet (PoE) or AC powered
- Internal speaker rated at 80 dB @ 10'
- Receives live voice, text-to-speech and prerecorded voice or tone files
- Desk or wall mount models
- Panic button alarm
- US ETL Listed to UL Std 60065
- Canadian ETL Listed to UL Std 60065 for I-IPW only

Informer-IP, Two-Way IP-enabled Intercom and Alarm Initiation Point (I-IP)

SPECIFICATIONS

Two Relay Outputs rated at 5 Amps @ 30VDC. Relay outputs can be programmed to cycle on and off, or come on continuously with the on time, off time, and total-time being programmable.

- Tone and voice compatible with Federal Signal UltraVoice controllers
- Small size with rugged construction
- Wired Ethernet, can be powered via PoE
- Input: 115 to 230VAC, 50/60Hz, 350mA maximum (I-IPW) nominal 120VAC 60Hz (I-IP-IO)
- 80 dB speaker with adjustable volume control
- LED status indicators for Power, Alert, Test and Talk
- Local Mic for intercom use
- One direct wire input for customer supplied panic button alarm
- Wireless remote key fob triggers alarms up to 75-ft direct line of sight
- Replay button allows alerts to be replayed when the red Alert LED is flashing
- RS232 port for driving an optional Scrolling Message Display
- Two programmable relay outputs for controlling strobe lights or other devices (pre-wired for LP1 Strobe, I-IPW)
- 600 Ohm audio output ties into existing PA, or external speaker
- Alerts are IP addressable individually, in groups or all at once.
- Requires minimal network bandwidth and uses TCP/IP protocol
- Works with redundant SmartMsg network servers for reliable failsafe operation
- Complies with FCC Title 47, Part 15 and UL 60065
- I-IPW complies with CAN/CSA-C22.2 No. 60065
- Federal Commander software provides full two-way control and status monitoring of the Informer-IP. Commander is Windows 7, Windows Server 2008 compatible

The Informer-IP monitors PoE and AC power along with speaker output level to verify the unit sounded. If it does not detect audio or power, then the status detail window will show a Fail status and administrators can be alerted.

HOW TO ORDER

Description	Part Number
Informer-IP Desk Mount	I-IP-IO
Informer-IP Wall Mount	I-IPW
Informer-IP requires SmartMsg/Centerpoint Communication software and Federal Signal Commander application software	

There is a programming fee associated with Informer-IPs programmed at the factory. Contact your local representative for a quotation.

OPTIONAL ACCESSORIES

Description	Part Number
Remote wireless key fob transmitter	I-KEYFOB
Informer-IP Setup Wizard Software & Cable	I-IP-SW
Yellow Station with Momentary Contact – “EVACUATION”	PSEV-YM
Yellow Station with Momentary Contact and Sounder Cover – “EVACUATION”	PSEVSC-YM
Red Station with Momentary Contact – “EMERGENCY”	PSEM-RM
Red Station with Momentary Contact and Sounder Cover – “EMERGENCY”	PSEMSC-RM
12VDC Strobe (can be powered by internal power supply)	LP1-012*

* (A) Amber, (B) Blue, (C) Clear, (G) Green or (R) Red (I-IPW only)



External push button activation



A flush mount kit is included for recessed applications as shown.

® Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

*Shown with optional
Fireball Strobe Light
(FB2PST)*



► Model I-IP100AC and I-IP100DC

Informer100 Speaker

Federal Signal's Informer product line now includes an IP-enabled high-powered outdoor speaker. The Informer100 Speaker can be used as a notification device using tones and/or voice. Pair this model with a Federal Signal Commander system for additional capabilities; for instance, it can be equipped with up to four local alarm initiation devices to activate the unit locally and to activate the Commander controller for mass notification communications.

The Informer100 Speaker has an internal 100 watt amplifier and driver to deliver intelligible voice messages from pre-recorded files or from the Federal Signal Commander VOIP network system. Ambient Level Monitor enables speaker to automatically adjust speaker volume in relationship to ambient noise level. It also has remote volume control for optimizing sound levels across your alerting area.

Notifications and alerts can be live voice, pre-recorded messages and/or tone files. When used with optional notification software, alert messages initiated from the Informer100 Speaker can be sent to emergency personnel via email, SMS, handheld radios; and can also be used to activate other Informer units and sirens.

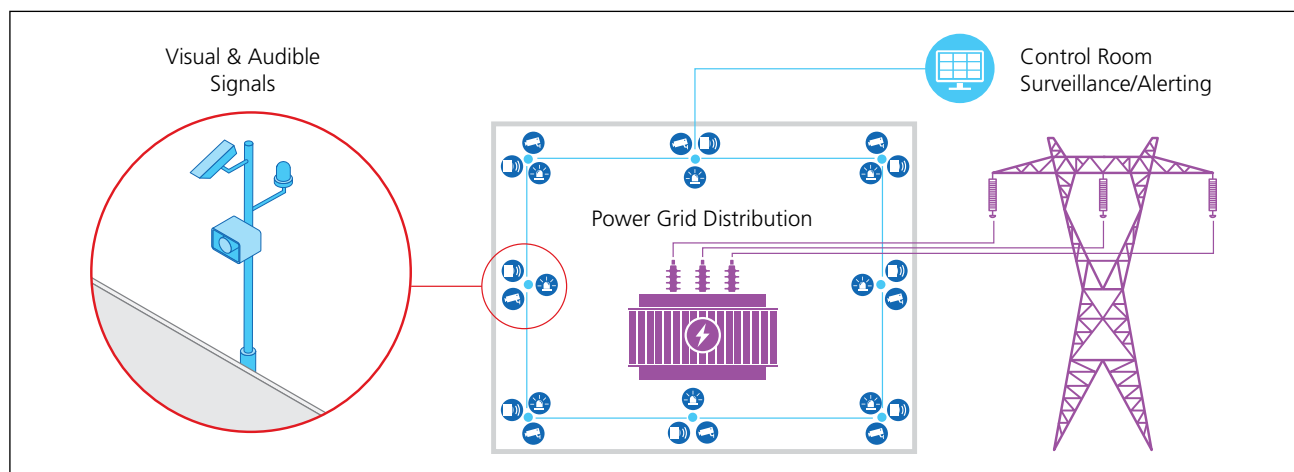
Informer100 Speaker includes two relay outputs for controlling strobes or other devices. Informer100 is designed for outdoor use or large indoor structures; and available in 24VDC or 120/240VAC. All wiring interfaces accessible via internal connectors for quick and easy installation.

The Informer100 Speaker is an ideal solution for existing notification systems where lack of coverage exists and the unit can be used as a call station where emergency alert buttons are required.

FEATURES

- Indoor/Outdoor IP enabled speaker with high-powered voice and tone
- Available in 24VDC or 120/240VAC
- Ambient SPL monitor with automatic volume control
- Remote volume control
- Broadcasts live voice, text-to-speech and prerecorded voice or tone files
- Integral 100 watt amplifier and ethernet interface simplifies installation
- Optional scrolling message display
- Remote firmware updates over Ethernet
- 15 minute audio storage, with up to 250 .WAV files
- Fully supervised using Commander software
- Wall or pole mount available
- Four initiation inputs, i.e. Panic button alarm
- Optional visual LED or strobe alerting devices available
- NEMA 4X outdoor rated
- UL and cUL Listed (currently pending)
- UL Marine Rated (currently pending)

Informer100 Speaker (I-IP100)



SPECIFICATIONS

- Two Relay Outputs rated at 8A @ 240VAC. Relay outputs can be programmed to cycle on and off, or come on continuously with the on time, off time, and total-time being programmable. They can also be programmed to control strobe lights or other devices
- Tone and voice compatible with Federal Signal Commander and UltraVoice controllers (Requires Commander version 14.8.x or higher)
- Small size with rugged construction
- Input: 24VDC, 5A maximum 120/240VAC, 50/60Hz, 1.5A/ .78A maximum
- Maximum Sound Pressure Level 120 dB (± 2 dB) @ 10' (130 dB (± 2 dB) @ 1 m)
- Wired Ethernet
- Adjustable volume control and ambient noise monitoring with auto-level adjustment
- Wall or pole mount options
- Up to four direct wire input for customer supplied panic button alarm
- Requires minimal network bandwidth and uses TCP/IP protocol
- Works with redundant Commander network servers for reliable fail-safe operation
- Federal Signal Commander software provides full two-way control and status monitoring of the Informer100

HOW TO ORDER

Description	Part Number
24VDC 100 watt wall mount	I-IP100DC
120/240VAC 100 watt wall mount	I-IP100AC
Small (6" or less) Pole Mount Bracket	I-IP100-PM
Large (over 6") Pole Mount Bracket	I-IP100-PMW
Omni Directional Option for IP Speaker	I-IP100-OMNI
Informer100 Speaker requires Federal Signal Commander application software (sold separately)	
Informer100 Speaker can be field configured or factory pre-configured to customer requirements. Contact your local representative for a quotation.	

SERVICE PARTS

Description	Part Number
IP Controller Service Part	Q-20000314
AC Speaker Service Part	Q-IP100AC
DC Speaker Service Part	Q-IP100DC

OPTIONAL ACCESSORIES

Description	Part Number
Yellow Station with Momentary Contact – "EVACUATION"	PSEV-YM
Yellow Station with Momentary Contact and Sounder Cover – "EVACUATION"	PSEVSC-YM
Red Station with Momentary Contact – "EMERGENCY"	PSEM-RM
Red Station with Momentary Contact and Sounder Cover – "EMERGENCY"	PSEMSC-RM
Outdoor 4-button push station	PBS-4
120VAC Strobe ¹	FB2PST-120*
240VAC Strobe ¹	FB2PST-240*
Modular Multifunctional LED Beacon	SLM200*²
Low Profile LED Status Indicator, Opaque Lens	SLM400²
Low Profile LED Status Indicator, Fresnel Lens	SLM450²
24VDC ½" NPT Pipe Mount Base, Gray ¹	SLMBP-012-024GY
120/240VAC ½" NPT Pipe Mount Base, Gray ¹	SLMBP-120-240GY

*Indicates color: (A) Amber, (B) Blue, (C) Clear, (G) Green, and (R) Red

¹ Powered from same source as speaker

² Must be ordered with a specified required mounting base



► Model I-IP2

Dual Rack Mount Informer-PA for Public Address Interface

Federal Signal's Intelligent Systems now includes an interface to public address systems. Model I-IP2 provides two Informer-PA modules in a single rack unit (1RU) enclosure for interfacing with public address systems. The Informer-PA creates the same alert communications provided over the outdoor systems. Informer-PA, when paired with the Commander® control system, offers the same level of security available with all Federal Signal control systems.

The Model I-IP2 has two independent Informer-PA interfaces with 600 Ohm adjustable audio output. Informer-PA can store up to 250 messages / 15 minutes of pre-recorded tone/voice alerts. In addition, each Informer-PA provides dual relay output for control of external devices; such as, zones for PA systems, or visual indicators. Additionally, I-IP2 has an RS-232 port to drive message boards for scrolling message displays.

The I-IP2 Informer-PA is a compact 19" 1RU rack mount, wall or desk mount unit. Power is supplied via PoE for each Informer-PA interface. Optional power can be supplied via wall transformer. Power indicators on the faceplate are provided for status monitoring. All wiring is via connectors on the rear of the unit for quick and easy installation.

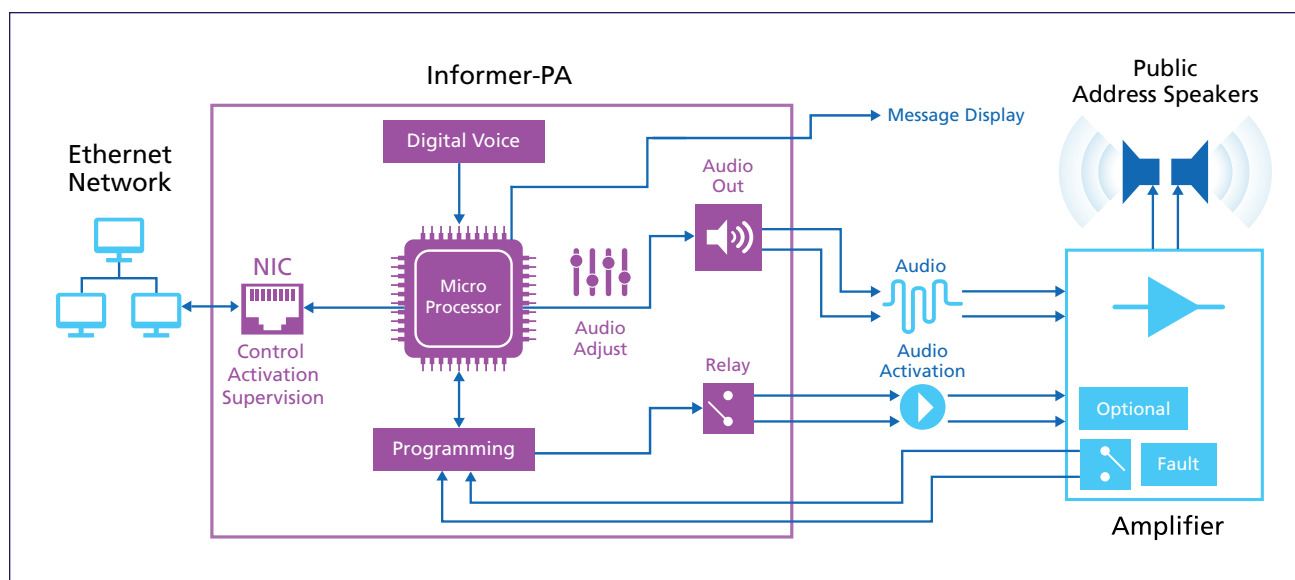
The Informer-PA communicates with the Federal Signal Commander® system for control of warning messages, live PA and pre-recorded messages. The device can be paired with outdoor and indoor units to create a wide area notification system.

This unit is ideal for schools, hospitals, commercial buildings, police and fire stations, government facilities, ports and industrial plants intelligent system applications.

F E A T U R E S

- Dual Public Address Interface
- Power over Ethernet (PoE) or AC powered
- 15 minute audio storage, with up to 250 .WAV files
- Multi-functional communication capabilities featuring live voice, text to speech, and prerecorded voice or tone files
- Integrated with Federal Signal's Indoor/Outdoor Alerting Systems
- Web or mobile based activation with CommanderOne
- 19" rack mount
- Rack, wall or desk mount
- US and Canadian ETL Listed (pending)
- Complies with UL60065 and CAN/CSA-22.2 60065 (pending)

Dual Rack Mount Informer-PA for Public Address Interface (I-IP2)



SPECIFICATIONS

- Tone and voice compatible with Federal Signal UltraVoice controllers
- Small size with rugged construction
- Wired Ethernet, powered via PoE (can also be powered with 120VAC 60Hz wall transformer)
- LED status indicators for Power
- Input for amplifier fault alarm
- RS232 port for driving an optional Scrolling Message Display
- Two programmable relays for control of external devices
- Two Relay Outputs rated at 5 Amps @ 30VDC.
- 600 Ohm audio output ties into existing PA, or external speaker
- IP addressable, can be activated individually or zoned in groups or all-call
- Requires minimal network bandwidth and uses TCP/IP protocol
- Works with redundant network servers for reliable failsafe operation
- US and Canadian ETL Listed to UL Std 60065
- CAN/CSA-C22.2 No. 60065
- Federal Commander software provides full two-way control and status monitoring of the Informer-IP.

HOW TO ORDER

Description	Part Number
Dual Rack/Wall/Desktop Mount Informer PA	I-IP2

Intelligent Systems Products

Note: Informer I-IP2 requires Federal Signal's Commander software. Other products for an intelligent system include:

Informer-IP Desk Mount	I-IP-IO
Informer-IP Wall Mount	I-IPW
Informer100 24VDC 100 watt speaker	I-IP100DC
Informer100 120/240VAC 100 watt speaker	I-IP100AC

There is a programming fee associated with Informer-IPs programmed at the factory. Contact your local representative for a quotation.

OPTIONAL ACCESSORIES

Description	Part Number
Scrolling Message Display	I-SMD-36
Rack Mount Amplifier (2 channel 120 watt/ch)	X-SPA2120
Ceiling Speaker, 6" round, 24/70V, includes tile bridge and back box	AMR6-2570K
Wall Speaker, 30 watt, swivel mount	AM300



- Model IPCAM-EN4-24V-5P-POE and N-C058900P072A

Wireless Remote Broadband Kit For Informer100 Speaker and IP Devices

Our IP-enabled wireless broadband kit provides connectivity from control rooms to IP based products; ideal for use with models I-IP100AC and I-IP100DC speakers. This kit allows secure wireless two-way communications when wired connections are not available. Kits ship pre-configured and ready to provide connectivity with a few simple steps. It includes 2 mated wireless 5GHz radios for Line of Sight links and 2 NEMA-4 communication boxes all rated for outdoor environments. The communications box comes standard with an AC surge protector, a 5 port PoE+ industrial switch and 24VDC 150W power supply. This solution provides connectivity for up to 4 IP devices on each side of the wireless link.

FEATURES

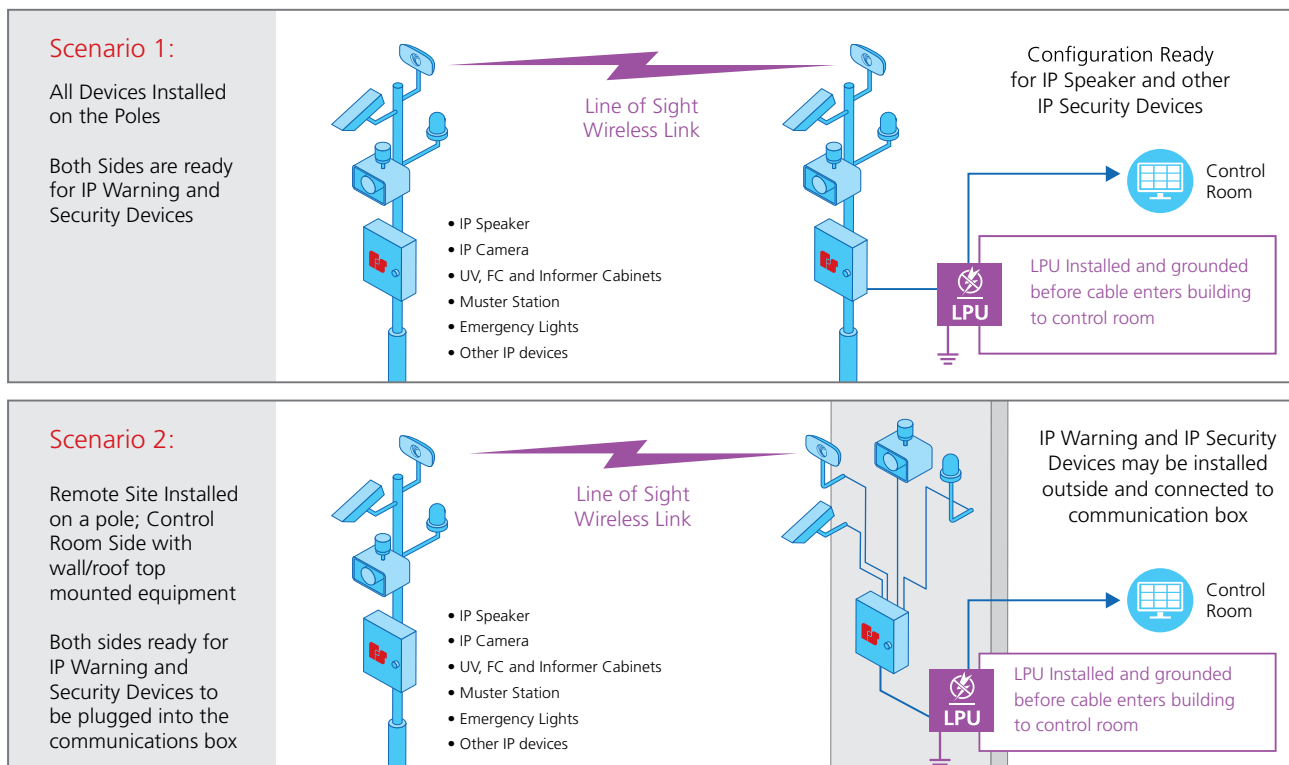
- Wireless line of sight connectivity to main facility
- NEMA 4X outdoor rated communications box
- 4 Available PoE+ ports at 30 watt each
- Wall or pole mount available
- Compatible with Federal Signal Informer, Ultravoice and mechanical siren systems

Remote ready optional add-ons

- IP video surveillance camera with analytics
- License plate recognition camera system
- Emergency status lights
- Remote muster points
- Perimeter control devices
- IP Badging Systems
- Other IP security devices

Wireless Remote Broadband Kit (IPCAM-EN4-24V-5P-POE and N-C058900P072A)

Wirelessly Connected Warning and Security IP Devices to Control Room



SPECIFICATIONS

Communications NEMA-4 box with the following features:

- 100-240VAC input
- Power Supply 150W 24VDC Output
- 5 Port Industrial PoE+ IP Switch (Connectivity for 4 PoE+ IP devices)
- AC Surge protection

Wireless Radios

- Operate from 4.91 GHz to 5.97 GHz
- 5, 10, 20 or 40MHz channels
- 2x2 MIMO
- Up to 200Mbps throughput/ 10 ms latency (depending on load and spectrum quality) with LOS up to 2 miles
- IP-55 Environmental Rating
- Pre-configured by Federal Signal

HOW TO ORDER

Specify Model and Quantity:

IPCAM-EN4-24V-5P-POE – QTY 2 Communications Box

N-C058900P072A – QTY 2 Integrated Radios

N-1101-935 – QTY 1 Lightning Protection Unit (LPU)

INSTALLATION

Easy installation steps for outdoor wireless broadband kit and integration

- Mount communication box to pole/wall
- Connect AC to communications box
- Mount integrated radio to pole/wall facing other side of link
- Connect an ethernet CAT5/6 cable between the communication box and the radio
- Align radios to achieve desired RSSI and performance (change channel on both radios if the preconfigured channel is already occupied, starting with the remote end)
- Connect other IP devices (Informer100) to switch

OPTIONAL ACCESSORIES

Description	Part Number
Radio pole mount extension on wood pole*	288939A
Radio pole mount extension on metal pole*	860500208
*If required to give 3 ft height extension for radio installation	

