

Visual SIGNALS

Regardless of the application – process control, plant safety or emergency evacuation – Federal Signal provides the signaling solution. With state-of-the-art surface mounted printed circuit boards, long-life incandescent, strobe and LED lamps, superior optics that maximize light dispersion, a multitude of mounting options, a variety of operating voltages, and housings designed for indoor, outdoor, ordinary and hazardous locations – Federal Signal has visual signals for every application from food processing to steel mills.

UNISTAT™



Four colors – One lens, a light source rated over 100,000 hours. The UniStat™ status indicator provides up to 16 different steady-burning and flashing light patterns including our exclusive SimuStrobe™. Designed for factory automation, the UniStat is PLC compatible.

LITESTAK®



Tough enough for industry. Flexible enough to meet any automation or process control application. Stack up to five light and sound modules. Flashing or steady burning lamps. Incandescent or LED. Pipe mount or surface mount. A variety of operating voltages.

STREAMLINE®



Displaying the versatility of the Streamline® product family, the Model LP3 Mini Strobe Light is offered in five different mounting configurations, three operating voltages and five colors. Ideal for process control applications, all Streamline lights are low profile, NEMA 4X, economical and PLC compatible.

ROTATING LIGHTS



The Commander® has set the standard for heavy-duty warning lights. Long life, vibration resistant strobe or rotating sealed beam lamps, impact resistant polycarbonate domes, a durable powder coat finish, and NEMA 4X water-tight, dust-tight housings are only a few of the features that this tough light offers. The 371L is a polycarbonate dome, the standard 371 is a glass dome.

STROBE LIGHTS



Federal Signal's brightest compact strobe light, the Fireball® emits a powerful lightning bolt flash of light. Only five inches tall and four inches in diameter, the Fireball is an economical solution to a variety of stationary and vehicular warning applications.

HAZARDOUS LOCATION



The Electraray® Hazardous Location Warning Light is ideal for the wet or corrosive environments found in food processing. UL and CSA approved for Class 1, Division 2 applications, the Electraray is available in strobe, incandescent and LED.

EXPLOSION PROOF



Federal Signal's Explosion Proof lights are designed to withstand the rigors of the Class 1, Division 1 or corrosive environments found in mines, refineries, chemical plants and oil rigs. UL and CSA listed and Marine and NEMA 4X rated. These explosion proof lights are available in strobe, incandescent and LED.

LED WITH XLT™



Models 191XL, 225XL, and the 27XL feature XLT™ (eXtreme Light Technology), a high-intensity LED array that optimizes light output with superior lens fill. In addition to outperforming conventional LEDs, they also offer the vibration and shock resistance, reduced power consumption and extended service life that is inherent to LED technology. Available in both DC and AC voltages, variety of lens colors and multiple mounting configurations.

VEHICULAR LIGHT BAR



The vehicular light bar provides increased visibility to any vehicle with two high intensity strobes focused through amber Fresnel lens for maximum concentration of light and superior lens fill. Two mounting configurations are available; permanent or magnetic/suction cup mount. The VLB complies with SAEJ1318 Class 2 requirements.

AUDIBLE/VISUAL



Sometimes a light just isn't enough. The Model AV1 Audible Visual Signal combines a powerful buzzer and a flashing light to create a signal that is hard to ignore. The AV1 is offered with an incandescent lamp or a long life strobe tube. Each is available in a variety of operating voltages and is rated for indoor and outdoor use.

Audible SIGNALS

Corrosive atmospheres...hazardous areas...high noise...extreme temperatures...dust...humidity. For unfailing performance of critical signaling systems in the harshest environments – rely on Federal Signal audible signaling equipment. Federal Signal offers the widest variety of industrial signals possible – Horns, Bells, Sirens, Electronic Speaker Amplifiers, Digital Message Centers, Tone Generators and more are available for stand-alone use or plant-wide systems.

VIBRATING HORNS



Vibratone® Electromechanical Horns are excellent for general alarm, start and dismissal, coded paging and process control signaling. Heavy duty, vandal-resistant construction, a choice of eight operating voltages and a variety of indoor and outdoor mounting configurations have made vibratone horns a customer favorite.

BELLS



The Vibratone® Bell family features a choice of three gongs, each producing a different tone and dB output, and two vibrating bell mechanisms, single strobe and continuous. Vibratone bells are designed for industrial environments, indoor and outdoor where general alarm, start and dismissal, or coded signals are required.

ELECTROMECHANICAL SIRENS



Federal Signal Electromechanical Sirens were first introduced in 1901 and continue to be popular today because they produce loud and distinctive tones that cut through industrial noise. Rugged, corrosion resistant and maintenance free, Federal Signal sirens are a good choice for harsh environments.

STREAMLINE® SOUNDERS



The Streamline® Low Profile Sounder is ideal for OEM and process control applications. The Model LP4 is PLC compatible, constructed of rugged ABS and consumes very little current. Despite its compact size, the user can select from 28 different tones.

SELECTONE®



Compact, attractive and efficient. The Selectone® Model 50GC Speaker/Amplifier reproduces crisp, clear tones and voice messages. With built-in volume control, multiple operating voltages and a choice of mounting configurations, this unit is ideal for offices, hallways, reception areas and conference rooms.

HAZARDOUS LOCATION



Plant-wide warning and public address. These 15- and 30-watt Selectone® Speaker/Amplifiers are designed to withstand the rigors of industrial environments. Models are available for ordinary locations and Class 1, Division 2 Hazardous Locations. All are suitable for indoor and outdoor use.

EXPLOSION PROOF



The flexible approach to safety signaling. Explosion Proof Selectone® Speaker/Amplifiers come in a variety of dB ranges with adjustable outputs. Each can be used as a stand-alone signal or as part of a plant wide communication and general alarm system.

COMMAND CONTROLS



Selectone® Command Units provide prioritized tones, pre-recorded voice messages, music and public address in any Selectone system. Wall mount, rack mount and desktop units are available in 24VDC or 120VAC operating voltages. Command units are the basis of simple yet full featured plant communication and general alarm systems.

COMM CENTER®



CommCenter® digital messaging capability is ideal for emergency evacuation announcements. Clear, concise, pre-determined instructions can be broadcast over a Selectone® or public address system. The CommCenter's pre-recorded melodies can convey the status of a process or machine without interrupting the flow of production in surrounding areas. Voice messages in any language can alert operators to emergency situations.

BACK-UP ALARMS



Federal Signal's Model 253 Back Up Alarm samples ambient noise levels and adjusts sound output automatically, providing just the right output to signal an approaching forklift, tow motor, dump truck, tractor or general purpose vehicle. Completely sealed against moisture and dust, these alarms are suitable for use in any environment.

Intercoms

When hostile conditions pose serious problems for effective in-plant communications it's clearly time to call Federal Signal. AudioMaster® and SelectFone® Intercom Systems are engineered to deliver dependable performance, maximum flexibility and extended service life under the harshest conditions. The modular design enables you to specify a system with an unlimited number of stations, to customize a system for the variety of environments within your facility and to expand your system in the future.

SELECTFONE®



SelectFone® is a total plant-wide communication system with paging and intercom capabilities. Stations are available in single-channel and five-channel configurations in 120VAC or 24VDC. Five-channel systems allow five simultaneous conversations. Indoor, outdoor, ordinary location, hazardous location, wall mount, panel mount and desktop stations are available.

HEAVY DUTY



Extreme conditions are just part of the job for AudioMaster® intercoms. These heavy-duty industrial intercoms provide reliable two-way communication and superior sound quality. The rugged NEMA 4X housings are suitable for indoor and outdoor use. A variety of operating voltages, optional features and a hazardous location model provide the flexibility to customize a system to your application.

LIGHT DUTY



The functionality of a heavy-duty intercom in a low profile package. The AudioMaster® Light Duty Intercom is suitable for office environments or conference rooms where communication with the factory is essential but a more economical or less industrial intercom is desired. Wall mount and desktop stations are available in a variety of operating voltages.

Outdoor Warning SIGNALS

For large scale outdoor or plant-wide signaling, Federal Signal manufactures high-powered outdoor warning systems. Because each facility is unique and large systems are complex, Federal Signal offers a variety of sirens and controllers, a high level of system customization and free consultation services. Omni-directional and unidirectional sirens, electronic and electromechanical tone generation, timers, controllers, amplifiers and encoders are all available from Federal Signal.

UNIDIRECTIONAL



Powerful, reliable and flexible. The Model 2001-130 Electromechanical Siren is powerful enough to cover four square miles, produces three distinct signals and can be controlled via radio or landlines. The energy efficient motor rotates the siren from two to three RPM.

OMNIDIRECTIONAL



The Modulator® OmniDirectional Electronic Siren is the most advanced outdoor warning siren available. Public address, digital voice messages and multiple warning tones can be reproduced at 125dB with 360-degree coverage. Six models are available providing from 400 to 2400-watts of output power.

Public Address

Customize a public address system to meet the needs of your facility. With high-powered amplifiers, AudioRouters for zoning, tone generators, pre-recorded voice messaging, and AudioMaster® speakers designed for every environment from offices to hazardous locations, Federal Signal can provide complete public address systems for any industrial facility from the smallest, quietest clean rooms to the largest, noisiest textile factory.

AUDIOROUTER™



The AudioRouter™ is an audio multiplexing system designed specifically for industrial environments. It provides a central control for routing voice pages, prerecorded messages, tones and music to specific zones within a facility. Control up to 64 zones from a single command center.

AMPLIFIERS



AudioMaster® amplifiers are the key component in a high-performance, industrial public address system. Noise free, crystal clear highs and lows are produced by the grounded bridge design. Low power consumption reduces long term operating costs. Four power ratings from 205 to 1745-watts are available.

CEILING SPEAKERS



AudioMaster® Speakers are designed to reproduce a full range of voice, music and tones in a variety of demanding industrial environments. High quality construction and materials provide years of service. Ceiling mount, wall mount, swivel mount and flush mount speakers are available in a range of output levels from two-watts to 100-watts.

INDUSTRIAL SPEAKERS



AudioMaster® Transformer Coupled Speakers are ideal for plant communication systems. Designed for use in 25, 70 or 100V RMS systems, speakers are available in a variety of mounting configurations, including the omni-directional swivel mount that allows the speaker to be pointed anywhere within a hemisphere.

HAZARDOUS LOCATION



Communication is critical in hazardous environments. AudioMaster® Hazardous Location and Explosion Proof Speakers are designed for Class 1, Divisions 1 and 2. Rugged construction and high quality components ensure long life and limit the expense of maintenance. A variety of 15- and 30-watt models are available.

VOICE GUN®



Take control of the situation with Federal Signal Voice Gun® – the most powerful lightweight electronic megaphones available. Noise canceling microphones ensure quality voice reproduction and the high-impact polycarbonate housing is virtually indestructible. All models are ideal for industrial, fire, marine and aviation applications.

Initiating

Signaling systems are designed to ensure safety, sound alarms, increase productivity, or provide a means of communication. Federal Signal initiating devices are the cost-effective method of activating audible and visual signals. A variety of push button stations, radio transmitters and receivers and pull stations have been designed to be highly visible, to minimize installation expense, to discourage tampering and to operate in hazardous locations.

PUSH BUTTON STATIONS



Activate emergency equipment, signals or alarms with Federal Signal Emergency Push Button Stations. Fire, Evacuation and Emergency stations are available in red or yellow. The clear cover sounds a piercing alarm when lifted and discourages false alarms and tampering.

PULL STATION



Explosion Proof pull station activates emergency equipment, signals or alarms from within a hazardous environment. Rated for Class 1, Division 1 applications. The two step activation includes a swing up front cover to expose the pull ring which activates the alarm; this two step process prevents accidental activation.



► **The breadth of product line to do it all... the know-how to do it well.**

Backing up Federal Signal's extensive line of industrial-grade signaling and communications products is application and engineering know-how that reflects the deepest knowledge pool in the business. Around the globe and across a diverse scope of industries, Federal Signal provides solutions that work harder, smarter and safer.

Federal Signal is the name to trust in integrated systems solutions. Totally. From in-plant communications, to fail-safe emergency warning, to audible/visual alarms for critical process control, to OEM machine signaling applications, Federal Signal is making fully integrated audible/visual signaling and communications a productive reality.



► **Supporting a full array of process control, Plant safety and emergency evacuation applications.**

All over the world, workers count on Federal Signal to get them through the workday safely...and to keep them well-informed of the status of process operations, production equipment and potentially hazardous conditions. Nobody does it better.

Federal Signal products set the standards for industrial signaling/communications technology, demonstrating the engineering expertise that consistently raises the bar for optic and acoustic components. Performance, reliability and quality are all trademarks of Federal Signal products...but it's an emphasis on customer technical support that make the critical difference between a solution that's total and one that isn't.



► **Some things never change...like Federal Signal's long-standing focus on industrial markets.**

Recognized as the world's largest prime manufacturer of industrial-grade audible/visual signaling, quality performance is a centerpiece of Federal Signal's production operations. ISO 9001 Certification highlights this commitment to product integrity and conformance with customers' most stringent quality requirements.

Federal Signal products are often used as the benchmarks for establishing industry standards. Underwriter Laboratories (UL), the Canadian Standards Association (CSA) and the European Community (EU)—in virtually every case, for virtually every product group, Federal Signal meets or exceeds standards...and then passes test after test conducted by independent labs without even breaking a sweat.

► **Completing the package...A distributor network that knows signaling/communications applications inside and out.**

Total customer satisfaction is Federal Signal's ultimate goal. That's why every product is backed up by a promise of excellence in customer service and technical support. That's also why Federal Signal distributors have a reputation as problem-solvers who are totally dedicated to matching the product to the application in the most cost-effective way possible.

Supporting distributors is an internationally acclaimed team of engineers and technicians. Beyond on-going product development, Federal Signal's signaling/communications experts provide a host of custom-engineering services that spotlight plant-wide integrated systems as never before... and as nobody else. Total solutions in integrated signaling and communications. That's Federal Signal.

► **Federal Signal on the web:**
WWW.FEDERALSIGNAL-INDUST.COM

THE MOST TRUSTED NAME, THE BROADEST PRODUCT LINE, AND THE DEEPEST KNOWLEDGE POOL IN THE SIGNALING INDUSTRY. AT FEDERAL SIGNAL, THAT'S WHAT WE MEAN BY A TOTAL INDUSTRIAL SOLUTION. BECAUSE FOR EVERY JOB YOU NEED YOUR SIGNALING TO DO, WE'RE WORKING TO FIND A WAY TO MAKE IT WORK HARDER, SMARTER AND SAFER THAN EVER BEFORE. WITH EVERY PRODUCT WE MANUFACTURE, AND THROUGH EVERY LEVEL OF OUR ORGANIZATION, WE ARE COMMITTED TO PROVIDING INDUSTRY-WIDE SOLUTIONS – NO MATTER WHAT INDUSTRY YOU'RE IN.



► *Visual Signals*

► *Audible Signals*

► *Outdoor Warning*

► *Intercoms*

► *Public Address*

► *Initiating*

total

SOLUTIONS

► **Total solutions** for industrial communications, safety, security and emergency response. Industrial applications have always been Federal Signal's stock-in-trade. Put simply: No one puts their name on more "industrial-only" audible/visual signaling devices and communications systems. That's why no one is better equipped to meet the growing demand for plant-wide system integration. Period.



Advancing security and well-being.

2645 Federal Signal Drive
University Park, IL 60466
708.534.4756 Fax: 708.534.4852
www.federsignal-indust.com

Hulley Road, Macclesfield
Cheshire SK10 2NF, UK
+44 (0) 1625 66 66 00
Fax: +44 (0) 1625 611 352
www.fs-isys.com

The Signal is clear™