

PA4000

Siren and Light Controller



FEATURES

- 200 W siren and light controller with PA and noise-canceling microphone
- Remote-Control Head is designed to mount flush on any flat surface
- Integrated dual-tone capability when used with (2) speakers
- Integrated Rumbler® traffic-clearing capability
- Optional FS Vehicle Integration/On Board Diagnostics Integration (OBDII)
- Siren tones, PA, Radio Rebroadcast and Air Horn
- Library of selectable siren tones includes SmartSiren®, Unicontrol™, and Powercall siren tone
- Horn Ring Transfer and Park Kill
- (7) programmable inputs and (12) programmable solid-state relay outputs
- Convergence Network Configuration Software allows for easy customization of siren and light controls
- (2) FS Convergence Network ports
- Standard voice messages available in English, Spanish and French Canadian to broadcast alerts. Custom voice messages available for an additional fee
- Five-year warranty

APPROVALS

- SAE J1849
- CCR Title 13
- NFPA 1901

TECHNOLOGIES



The PA4000 is a full-featured, programmable, electronic siren and light control system with a remote-control head that can be flush mounted to any flat surface. The design of the PA4000 siren system is ideal for use in ambulances, police cars, fire apparatus and command vehicles.

Controller Features

Controller features a seven-position rotary switch, two programmable buttons, volume control knob, speaker diagnostic LEDs, and microphone. The two programmable buttons can be programmed for press-on, press-off, momentary, and multiple different blinking styles. The button brightness can be dimmed or turned-off for stealth operation. Button color can be programmed through the Convergence Network Configuration Software in Blue or Red.

Diagnostic LEDs available on the front of the controller can provide the operating status of each of the amplifier outputs. The LEDs are fully programmable and can be set to steady burn or flash when the siren detects a fault or normal operation for each individual speaker. By default, the diagnostic LEDs are disabled but can be programmed with the Convergence Network Configuration Software.

Amplifier Features

PA4000 default siren tones include wail, yelp, priority, and air horn. A library of other selectable siren tones is available in the software. PA4000 also includes two serial ports to be used with FS Convergence Network devices such as light bars or directional warning lights for easy “plug-n-play” installation. Other features include horn ring transfer, public address with included microphone, and radio rebroadcast.

The PA4000 has 12 solid-state relays: five 10 A active high solid-state relays, one 10 A high-low, and six 5 A high. The maximum output current for each relay can be set with the Convergence Network Configuration Software. PA4000 also has connections for four general-purpose input circuits, plus dedicated inputs for park, horn, and ignition. Ignition is an active-high only input, while all other inputs are programmable for active-high or active-low.

Integrated Rumbler® Capability

The PA4000 is available with built-in Rumbler® Traffic Clearing capability. This allows the PA4000 to produce a Rumbler tone without the need for a separate externally mounted amplifier. Rumbler capability requires the purchase of Rumbler woofers and vehicle specific mounting kit. Dual-tone capability cannot be utilized with the Rumbler capability unless a complete RUMBLER-C2 or RUMBLER-SOLO, which includes the additional amplifier, is purchased.

FS Vehicle Integration/On-Board Diagnostics Integration (OBDII)

The FS Vehicle Integration is a simple plug-in connection using the existing vehicle CAN bus system. The FS Vehicle Integration uses a vehicle specific cable (sold separately) to seamlessly integrate with the vehicle allowing light and siren control with vehicle events such as door open, headlight, brake, speed, park, etc. The use of the FS Vehicle Integration removes the need to separately wire certain options such as horn ring transfer or ignition.

For a full list of vehicles, visit www.fedsig.com

Programming Software Features

The Convergence Network Configuration Software is available as a download from the Federal Signal website and siren configurations can be created via laptop computer. Configured programs can be extracted, modified, and stored for ease of service and re-use. The Federal Signal Convergence Network allows the user to "plug-n-play" simply by connecting the siren to the vehicle's light bar. PA4000 gives the user the ability to clone an entire fleet of siren functions. The user simply connects the PA4000 to a PC and downloads the functions of the programmed software onto a USB drive to download functions to each siren.

HOW TO ORDER

PA4000-200 200 W, flush mount controller, remote amplifier

ACCESSORIES

- RBKIT1-COMPACT** Single Rumbler® Compact low frequency speaker for use with sirens with integrated Rumbler capability
- RBKIT2-COMPACT** Pair of Rumbler Compact low frequency speakers for use with sirens with integrated Rumbler capability
- RBKIT-SOLO** Single Rumbler Solo low frequency speaker for use with sirens with integrated Rumbler capability
- RUMBLER-C2** Rumbler Amp, Pair of Rumbler Compact low frequency speakers and hardware kit
- RUMBLER-SOLO** Rumbler Amp, Single Rumbler Solo low frequency speaker and hardware kit

SPECIFICATIONS

AUDIO OUTPUT POWER	200 W
INPUT VOLTAGE	11/28 Vdc
NOMINAL OUTPUT VOLTAGE	62 V peak-to-peak
STANDBY CURRENT	< 0.1 A
INPUT CURRENT, OPERATING	16 A
OPERATING TEMP	-40° to +176° F (-40°C to + 80°C)
POLARITY	Negative ground only
FREQUENCY RANGE	182 to 1600 Hz

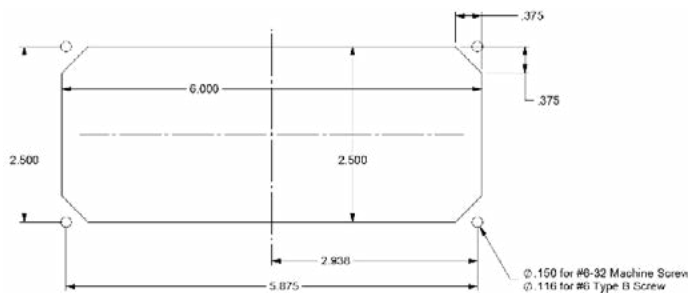
PHYSICAL SPECIFICATIONS

	CONTROL HEAD	AMPLIFIER
LENGTH	1.0 in (2.5 cm)	7.0 in (17.8 cm)
WIDTH	6.3 in (16 cm)	6.0 in (15.2 cm)
HEIGHT	2.9 in (7.4 cm)	2.5 in (6.4 cm)

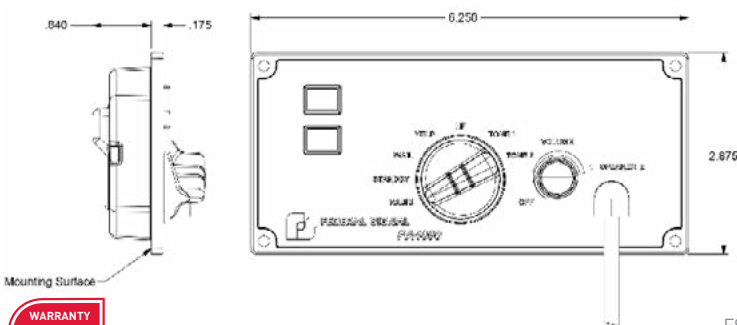
SHIP WEIGHT

6.0 lb (2.7 kg)

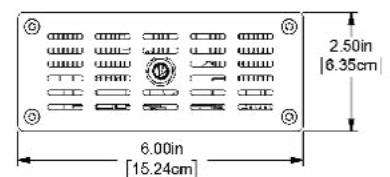
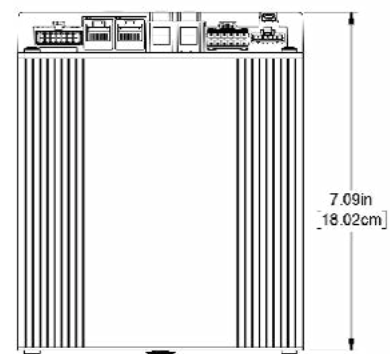
Recommended Panel Cutout



Controller



Amplifier



FSJoin, Rumber, SmartSiren, and Unitrol are trademarks of Federal Signal Corporation.

Warning: Sirens and Speakers may produce LOUD sounds necessary to request the right-of-way. Sirens and Speakers may cause hearing damage. Wear hearing protection.

