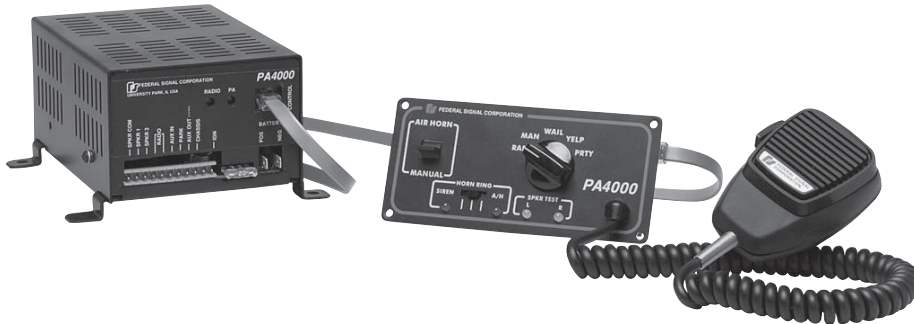


PA4000 ELECTRONIC SIREN



The PA4000 is available with or without a coast-down feature.

Federal Signal's **PA4000** electronic siren is a full-featured unit designed to be flush mounted on any flat surface, such as the dashboard of an ambulance, fire truck, or police car. This 200-watt siren is designed to meet Class A specifications and can drive two high-power speakers. The product of Federal's unmatched experience in electronic siren technology, the PA4000 siren incorporates the latest technology for superior reliability.

The PA4000 siren consists of an amplifier unit and a flush-mount control head. A simple RJ-45 telephone wire connects the two for ease of installation.

This unit offers a wide range of features, including Wail, Yelp, and Priority tones, TAP II, PA, radio rebroadcast, and built-in air horn sound with siren override. The microphone push-to-talk switch overrides all siren modes for instant PA use.

A special feature of the PA4000 is its diagnostic capability. Two speaker-test LEDs are provided that indicate speaker operation during siren test mode. In test mode, an intermittent low-level audio sound is emitted by the speaker(s), and the LEDs flash. Test mode can only be activated by the Manual paddle switch while in Radio mode. The test checks for abnormal operation of the speaker system.

Several unique features of the PA4000 enhance its performance:

AUX/IN – When in Manual, this input will place the siren into Wail mode. Changing the function switch from Manual to Wail and back will deactivate the siren.

PARK – This input is used to deactivate the siren when the vehicle transmission is placed into Park. The siren tone will resume when the vehicle is put back into gear.

AUX/OUT – This output has the capability of driving an external relay that may be used to control other devices, such as warning lights. This output is activated any time the siren is operating in Wail, Yelp, or Priority mode.

AIR HORN/SIREN – A panel-mounted paddle switch always provides Air Horn or Manual siren tone.

HORN RING – This slide-switch sets the function of the horn ring. Two LEDs indicate that the vehicle horn is disabled and which function is selected. No external switch or relay is required.

TAP II – The TAP II feature enables the driver to change the active siren tone via the vehicle's horn ring or any remotely mounted switch.

QUICK REFERENCE

FEATURES

- Full-featured electronic siren.
- Diagnostic feature checks system status.
- Wail, Yelp, and Priority tones.
- Noise-cancelling microphone included.
- Removable control head.
- Backlit instrument panel for easy nighttime viewing.
- State-of-the-art technology for exceptional reliability.
- Easy to install and fully serviceable.

APPLICATIONS

- Fire apparatus
- Ambulances
- Police vehicles

APPROVAL

- Meets Class A requirements for sound output with any Federal Signal 100-watt speaker

RELATED PRODUCTS

Speakers

Bulletin #6100

BP100 Compact Speaker

Bulletin #6101

DynaMax™ Speaker

Bulletin #6102

FM100-EF Speaker

Bulletin #6104

The PA4000 siren is easy to install in any negative ground vehicle with a 12VDC electrical system, and it is protected against failure modes (including reversed polarity) by a fuse that is replaceable without tools. The amplifier unit can be installed in a remote location and connected to the control head with the included 16-foot telephone cable. The control head can be mounted on any flat surface, and the microphone is hard-wired in for convenience.

HOW TO ORDER

1. Specify model.

PA4000 200-watt electronic siren with coast-down feature

PA4000NC 200-watt electronic siren (no coast-down feature)

2. Order optional equipment (if necessary).

MS100 100-watt DynaMax™ speaker, black

BP100 100-watt compact speaker, black

BP100F 100-watt compact speaker with mount and trim ring, polished

BP100P 100-watt compact speaker, polished

SPECIFICATIONS

Input Voltage	11–16 VDC
Power (watts)	100/200
Operating Current	7/13 amps
Standby Current	150 mA
Frequency Range	700–1600 Hz (nominal)
Cycle Rate	Wail—14 cycles/min. Yelp—180 cycles/min.
Voltage Output	62 V peak-to-peak (approx.)
Audio Frequency Range	300 Hz to 3000 Hz (frequency response ±3 dB)
Operating Temperature	–30° C to 65° C

Control Head Dimensions

Length	6.3 in. (16.0 cm)
Height	2.9 in. (7.4 cm)
Depth	1.5 in. (3.8 cm)

Amplifier Dimensions

Length	6.9 in. (17.5 cm)
Height	2.9 in. (7.4 cm)
Depth	4.8 in. (12.2 cm)
Shipping Weight	7.0 lbs. (3.2 kg)