



PA300 SERIES ELECTRONIC SIREN



PA300 Series - value, easy operation, high reliability (Model 690000)

The Federal Signal PA300 siren delivers exceptional value, time-tested durability, unmatched reliability, and is recognized worldwide as the industry standard.

Electrical

This totally enclosed, fully featured siren will operate from any 12-volt negative ground vehicle electrical system. The PA300 can be powered directly by the vehicle's battery or through secondary power distribution centers. No matter how power is delivered, the siren is protected against most failure modes, including reversed polarity, by a fuse that is readily available and can be replaced without tools. The PA300 series of sirens can provide either 100- or 200-watt output and will meet or exceed SAE J1849 and Class A requirements for sound when paired with a Federal Signal high-power speaker.

Features

A wide range of features comes standard with any PA300 series siren. Included are 5 basic siren tones, TAP II (horn-ring transfer), PA, radio rebroadcast, and air horn sound with siren override. TAP II allows for effective intersection traffic clearing capability without removing your hands from the steering wheel or your eyes from the road. There is also a "Press-and-Hold" function, depressing and holding the horn ring will produce an alternate sound for as long as the operator keeps the horn ring circuit depressed. The siren's PA volume level can be controlled with a rotary GAIN switch located on the unit's backlit front panel, and radio rebroadcast volume is adjustable via an easily accessible rotary pot. The PA300 siren also includes a permanent noise-canceling microphone that produces high quality voice reproduction without feedback squeal, and the microphone's push-to-talk switch will override any siren tone for instant PA use.

Installation

PA300 siren packages are built small and compact measuring only 2.3"H x 6.1"W x 7.6"D and each unit comes supplied with its own "U" shaped mount bracket. There are no protruding components to interfere with mounting arrangements and all electrical connections are easy "plug-and-play" type which are located on the rear of the siren's housing. An optional stainless steel bezel is available for flush mounting and a wide variety of switch controls that flush mount to the PA300 series siren are also available.

> Features

- Full-featured siren in compact package.
- Easy-to-operate and durable switching.
- Built-in noise canceling microphone.
- Illuminated non-glare control panel.
- 100- or 200-watt models available.
- Easily accessible fuse protection.
- Effective TAP II intersection clearing.
- Priority in place of hi-lo tone available.
- Meets SAE/Class A with one 100-watt speaker.

> Approvals

- Meets SAE J1849 requirements for sound output
- Meets Class A (CAC)

> How to Order

Selector Switch Functions

RADIO	Incoming radio messages are amplified by the siren and rebroadcast over the outside speaker. MANUAL – Siren may be activated by the HORN/SIREN switch or the vehicle's horn ring.
WAIL	Continuous "wailing" up and down in pitch.
YELP	Continuous rapid "warbling" tone.
HI-LO	Distinctive two-tone sound.
PRIORITY	Easily recognized rapid Yelp tone.
HORN-SIREN	Up position activates electronic air horn sound and Down position activates peak-and-hold sound in any mode except radio.

TAP II Functions

The TAP II feature enables the driver to change the audible siren sound via the vehicle's horn ring or any remotely mounted switch. The chart below demonstrates how the horn ring circuit may be used to change the siren sound

	1st Horn Tap Produces	2nd Horn Tap Produces
Switch set to WAIL	Yelp	Wail
Switch set to YELP	Wail	Yelp

Press-and-Hold Function

Additional alternate sounds may be activated in two other selector switch positions. Depressing and holding the horn ring circuit produces the alternate sound for as long as desired. The chart below shows how the function works.

	Press Horn Produces	Releasing Produces
Switch Set to HI-LO	Air Horn	Hi-Lo
Switch set to MANUAL	Peak-and-Horn or Air Horn	Silence or Coast Down and Silence

Specify Model

690000	Electronic siren, 12-volt, 100-watt, includes wired-in microphone, standard siren tones with air horn and radio rebroadcast
690010	690000 that is 12-volt, 200-watt version
761300	Retrofit adapter cable (used when replacing PA300 model with new 690XXX model)
690002	690000 with Priority tone in place of Hi-Lo

Order optional equipment (if necessary).

DSM	Stainless steel bezel for flush mounting PA300
SW300	Switch control with six SPST rocker switches, mounts flush to PA300
SW400SS	Switch control with slide- switch and four SPST rocker switches, mounts flush to PA300
SW45SJ	SW400SS with three SPST and one momentary (JOG) switch

Specifications	
Input Voltage	11-15 VDC
Standby Current	70 mA
Operating Current	20 amperes max.
Operating Temperature	-30° C to +65° C
Physical Specifications	
Height	2.3 in (5.9 cm)
Width	6.1 in (15.6 cm)
Depth	7.6 in (19.4 cm)
Ship Weight	
	6.5 lbs (2.9 kg)