

**SA-400 CLASSIC**

# THE **SA-400** **CLASSIC**

from

**CARSON**  
SIRENS



## *"The Premium Full Featured Siren"*

With over 30 years of history as the industry's "workhorse", the **SA-400 CLASSIC** has justly earned its reputation as one tough siren. There are countless thousands of these sirens still on the streets to this day alerting motorists of approaching police cruisers, ambulances, and other emergency rescue vehicles. It certainly is one tough siren that provides the operator years of reliable service.

Don't pass up on this timeless veteran. If you need to get there in a hurry, you can rely on the **CLASSIC** to clear the way. It has been and remains the standard against which all other sirens are measured.

Of course, what makes the **SA-400 CLASSIC** the premium full featured siren goes further than just its rugged design, it also includes the following high-end features:

**- Splash Resistant Face:** Designed to keep liquids from entering the internal circuitry, the siren includes a bezel between the front panel and the label that extends just beyond where the chassis and cover meet. Additionally, there are no open holes on the face. All of the openings for the controls are protected from liquids seeping in from accidental spills.

**- DIP Switch Programmable:** Flexible DIP Switch programming allows the installer to sample different settings before selecting desired functions. Options include disabling Phaser and Air Horn to be California Title 13 compatible, replacing Phaser with Two-Tone/HiLo, selecting Horn Ring Cycler 2 operation through the auxiliary input or Siren button, setting the auxiliary input polarity, and selecting Short Manual.

**- LED Backlighting:** Just as incandescent lights in a regular lamp burn out regularly, an incandescent bulb in a siren has a limited life and often fails. LEDs used for backlighting are designed to last the life of the product and never burn out or need to be changed.

**- Quick-Snap Fastener:** The secure fastener makes it easy to open and close the siren by using a pressure connection between the chassis and cover holding them together. The siren requires no tools to open it up or screws that can easily get lost.

*The **SA-400 CLASSIC** sets the standard.*

# SA-400 CLASSIC

## Specifications

|                         |  |
|-------------------------|--|
| Siren                   |  |
| Input Voltage           | 9 - 16 VDC (negative ground)   |
| Input Current           | 8 Amps or 16 Amps @ 14 VDC   |
| Standby Current         | Less than 150 ma   |
| Audio Frequency         | 200Hz - 10kHz +/- 3db  |
| Audio Distortion        | Less than 3% (@ 1kHz - single 100W speaker)  |
| Audio Output            | 40W (@ 14 VDC per 100W speaker)  |
| Radio Input             | 0.75 VRMS Min., 400 ohms nominal   |
| Output Power            | 105W RMS Max (@ 15 VDC - single 100W speaker)<br>180W RMS Max (@ 15 VDC - dual 100W speakers)  |
| Siren Frequency         | 700Hz - 1500Hz (Two-Tone & Air Horn = 435 & 585Hz)   |
| Tones/Cycle Rates       | Horn = 109 CPS, Wail = 13 CPM, Yelp = 190 CPM,<br>Phaser = 15 CPS, Two-Tone = 60 CPM   |
| High Voltage Protection | 16 - 18 VDC output ceases, resumes at normal level   |
| Short Circuit Current   | 50 Amps Min. from supply circuit   |
| Operation Temperature   | -15F to 140F   |
| Controls                | 6 Position rotary, push button for Manual and Horn,<br>noise canceling microphone, PA volume control, internal<br>Radio volume adjust, auxiliary input for +/- Horn,<br>Manual or HRC2 operation, and 8 position DIP switch<br>option selector |
| Siren Connections       | 9 Pin connector: 2 positive, 2 negative, 2 speaker, 2<br>radio, and auxiliary input  |
| General                 |  |
| Size                    | 6 1/8" Wide, 2 1/2" High, 5 3/8" Deep  |
| Shipping Weight         | 5 1/2 Lbs  |
| Ratings Met             | Class A Sound Level, California Title 13, KKK  |

## Features

- 100/200 watt amplifier
- Six position rotary switch for tone selection with positions for Wail, Yelp, Phaser, and Air Horn
- Momentary push button for siren override and Manual siren control
- PA override with noise-canceling microphone and a dedicated volume control on the face of the unit
- LED backlit for nighttime visibility
- Splash resistant face for demanding environment protects internal circuitry from liquids
- Horn Ring Cycler 2 (HRC2) for hands free siren control for pursuit and rescue situations
- Externally fused to protect the siren
- Flexible DIP switch programmable options
- Detachable plug connector
- No-hassle 5-year limited warranty

|  | <b>SA-400<br/>CLASSIC</b> | Federal Signal<br>PA300 | Whelen<br>295HFSA1 | Code 3 V-Con<br>3672/3692 | Signal Vehicle<br>Products (SVP)<br>SS700 |
|--|---------------------------|-------------------------|--------------------|---------------------------|---|
| Efficient 8 Amps Max Operating Current per 100 Watts of Output | Yes                       |                         |                    | Yes                       | Yes                                       |
| Splash Resistant Face  | Yes                       |                         |                    |                           |   |
| Flexible DIP Switch Programmability                            | Yes                       |                         |                    | Yes                       |   |
| LED Backlit  | Yes                       |                         | Yes                |                           | Yes                                       |
| Dedicated On/Off Switch  | Yes                       |                         | Yes                |                           | Yes                                       |
| PA Audio Distortion Less Than 3%                               | Yes                       |                         |                    |                           |   |
| Quick-Snap Fastener Chassis to Cover Connection                | Yes                       |                         |                    |                           |   |
| 5-Year Warranty  | Yes                       |                         | Yes                |                           |   |

**WARNING Sound Hazard** - Sound level from siren speaker (>120dBA @ 10 feet) may cause hearing damage. Do not operate siren without adequate hearing protection for you and anyone in immediate vicinity. (Ref. OSHA 1910.95 for occupational noise exposure guidelines)

