

All Hazard High-Power Siren System

Whelen's OMNI-ALERT™ Series provides an economical alternative for powerful omni-directional siren warning without compromising quality.

SYSTEM FEATURES

- **OA1** – One omni-directional speaker cell assembled in a vertical column.
- Two-compartment (Type I) natural finish aluminum cabinet.
- Speaker cell includes one high efficiency 400 watt **EZ-PULL™** speaker driver.
- Pole top mounting bracket included.
- Battery powered. Minimum of 15 minutes of full power output with batteries of our recommendation.
- AC temperature compensated 5 amp battery charger.
- 50' cable included.
- Local controls or remote controls.
- One power amplifier.
- Electronic siren controller.
- Tone generator.
- Timer.
- Local control push-buttons.
- **SI TEST**®
- Low battery alarm.
- Battery tray.
- Lightning arrestor.
- Six standard public warning tones - Wail, Whoop, Attack, Hi-Lo, Alert, Airhorn.



Type I
Electronic Cabinet



OA1 with optional
Solar OSBC80

SYSTEM OPTIONS

- **Solar option** – 2 each 80 watt panels, with brackets and solar regulator.
- **Batteries** – 2 each Whelen approved batteries. Check Whelen's web site for other recommended batteries.
- **Pole top bracket**

SIREN ACTIVATION CONTROLS

Our VHF High and UHF siren activation control packages include the following:

- Radio.
- Radio Interface.
- Tone Squelch.
- 2-3dB Gain Omni-Directional Antenna with Bracket.
- 35' of RG58 Antenna Cable.
- Polyphaser.
- SI TEST.

Other features are dependant upon one or two-way controls. Whelen equipment can be interfaced with many different types of two-way radio communications products and systems. The following is offered as standard options. Contact factory for special applications.

ONE-WAY CONTROLS

- **OAUXIN** - Auxiliary board for contact closure activation.
- **OD2030LL** - 10 Digit DTMF landline activation.
- **OD230NV** - 10 Digit DTMF VHF high band narrow band / 150-170 Mhz.
- **OD230NU** - 10 Digit DTMF UHF narrow band / 450-470 Mhz.
- **OTT** - Two tone sequential option.

TWO-WAY CONTROLS

- **OAUXCS** - Two-way contact closure activation and status board.
- **OC2030LL** - Two-way landline activation.
- **OC230NV** - 10 digit DTMF VHF high band narrow band / 150-170 Mhz.
- **OC230NU** - 10 Digit DTMF UHF narrow band / 450-470 Mhz.

OPTIONS

- **OFSKXMOD** - Converts the siren activation controls to FSK format.
- **OPGINT** - Paging interface to interface Whelen tones with existing paging systems.
- **OSTATUS** - Cabinet window LED status indicator.
- **OINTRU** - Intrusion alarm (available with two-way only).

OA1 One Cell



Specifications

| Component | Height Inches (CM) | Width Inches (CM) | Depth Inches (CM) | Weight Lbs. (kg) |
|-----------------------------|--------------------|---------------------------|-------------------|------------------|
| OA1 Speaker | 20.4 (51.8) | 33.4 (84.8) | – | 107 (48.5) |
| Electronics Cabinet Type I | 32.5 (82.6) | 22.5 (57.2) | 10.5 (26.7) | 62 (28.2) |
| Pole Top Bracket (Optional) | 30.5 (77) | 12.0 (30.5) x 13.5 (34.3) | See Drawing | 71 (32.3) |

Batteries add 90 lbs. Pallets, boxes and skids add weight. Check with Whelen if a freight quote is needed.

Electrical

- Battery charger input: 120VAC, 60Hz, 7A fuse.
- Battery charger output: 28VDC, 5A.
- Batteries: 2-12V, 60AH lead calcium (user supplied).
- Standby current: 70mA.
- Operating current: 22A, 24VDC.
- Power amplifier output power: 400 watts.

Environmental

- Operating Temperature: -35C to +60C.
- Storage Temperature: -65C to +125C.
- Humidity, Non Condensing: 0 to 95%.

Ordering Information

BASIC SYSTEM INCLUDES ALL OF THE FOLLOWING

- OA1 - Speaker Assembly & Electronics Cabinet.
- OPTIONS:**
- OAUXIN - Auxiliary board for contact closure activation.
 - OAUXCS - Auxiliary / status control board for contact closure activation and status.
 - OD2030LL, OD230NV, OD230NU - One-way narrow band radio control ①.
 - OC2030LL, OC230NV, OC230NU - Two-way narrow band radio control / status monitoring, COMM/STAT™.
 - OTT - Two tone sequential.
 - OFSKXMOD - FSK format.
 - OSTATUS - Cabinet window LED status indicator.
 - OPGINT - Paging interface to interface Whelen tones with existing paging systems.
 - OINTRU - Intrusion alarm.
 - OSBC80 - Solar power.
 - OPTB - Speaker pole top bracket.
 - OBATT - One pair of batteries.

NOTES

① 10 digit DTMF Controls • Landline • VHF High Band/150-170 Mhz • UHF/450-470 Mhz
Our VHF High and UHF activation control packages include tone squelch, radio, radio interface, 2-3dB gain omni-directional antenna with bracket, 35' of RG58 antenna cable and polyphaser.

OA1 Acoustic Performance

Wattage: 400 watts

Estimated range: 1,400 ft / 425 m

Weather, terrain and other structures may impact the range. Each siren within the system may have a decreased or increased range depending on conditions beyond our control.

MASS NOTIFICATION PRODUCTS

Whelen Engineering Company, Inc.

51 Winthrop Road
Chester, Connecticut 06412-0684
860-526-9504
800-637-4736
www.whelen.com
iowsales@whelen.com

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