

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
- 108dBC @ 100'
- OA1 Speaker Cell Includes One High Efficiency 400 Watt **EZ-PULL™** Speaker Driver
- 50' Cable Included
- Battery Powered, Minimum of 15 Minutes of Full Power Output with Batteries of our Recommendation
- AC Temperature Compensated 5 Amp Battery Charger
- 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

SYSTEM OPTIONS

- **OSBC80** - Solar Power ①
- **OBATT** - Delco DC74
- **OPTB** - Speaker Pole Top Bracket
- **OXXIT** - Upgrade Kit to Upgrade OA1 to an OA2, OA3 or OA4
- Alternate Tone Set

NOTES:

- ① Solar power option. 2 - 80 watt panels, mounting bracket and regulator.

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 including 800Mhz trunking, Motorola's MOSCAD, FSK, Narrow-Band and VHF Low Band. The following is available as standard options. Contact factory for special applications.

ONE WAY CONTROLS

- **OAUXIN** - Auxiliary Board for Contact Closure Activation
- **OD2020LL** - 10 Digit DTMF Landline Activation
- **OD2020H** - 10 Digit DTMF VHF High Band / 150-170 Mhz
- **OD2020U** - 10 Digit DTMF UHF / 450-470 Mhz
- **OTT** - Two Tone Sequential Option

TWO WAY CONTROLS

- **OAUXCS** - Two-Way Contact Closure Activation and Status Board
- **OC2020LL** - Two-Way Landline Activation
- **OC2020H** - 10 Digit DTMF VHF High Band / 150-170 Mhz
- **OC2020U** - 10 Digit DTMF UHF / 450-470 Mhz
- **OC2020NH** - 10 Digit DTMF VHF High Band Narrow-Band
- **OC2020NU** - 10 Digit DTMF UHF Narrow Band

Options:

- **OFSKXMOD** - Converts the Siren Activation Controls to FSK Format
- **OSTATUS** - Cabinet Window LED Status Indicator
- **OPGINT** - Paging Interface to Interface Whelen Tones with Existing Paging Systems
- **OINTRU** - Intrusion Alarm (available with two-way only)



Type I
Electronic Cabinet



OA1 Specification Data

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (KG)
OA1 Speaker	18.7 (47.5)	32.5 (82.5)		116 (52.6)
Electronics Cabinet - Type I	32.5 (82.6)	22.5 (57.2)	10.5 (26.7)	49 (22.2)*
Pole Top Bracket (Optional)	30.0 (76.2)	12.0 (30.5)	10.0 (25.4)	71 (32.3)

*Less batteries. Two batteries, Delco DC74, add 90 Lbs. (40.9kg)

Electrical

- **Battery Charger Input:** 120VAC, 60Hz, 7A Fuse
 - **Battery Charger Output:** 28VDC, 5A #
 - **Batteries:** 2-12V, 60AH Lead Calcium (user supplied)
 - **Standby Current:** 40mA,
 - **Operating Current:** 22A, 24VDC
 - **Power Amplifier Output Power:** 400 watts
- # U.L. Recognized Component

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
 - **OD2020LL, OD2020H, OD2020U** - One Way Radio Control ①
 - **OC2020LL, OC2020H, OC2020U** - Two Way Radio Control / Status Monitoring, COMM/STAT™ ①
 - **OC2020NH, OC2020NU** - Two Way Radio Control / Status Monitoring, COMM/STAT™ ①
 - **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 ②
 - **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 siren activation control packages include tone squelch, radio, radio interface, 2-3dB gain omni-directional antenna with bracket, 35' of RG58 antenna cable and polyphaser.
- ② Solar power option includes 2 - 80 watt panels, mounting bracket and regulator

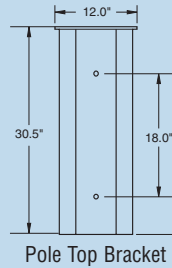
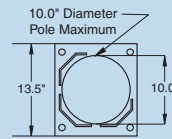
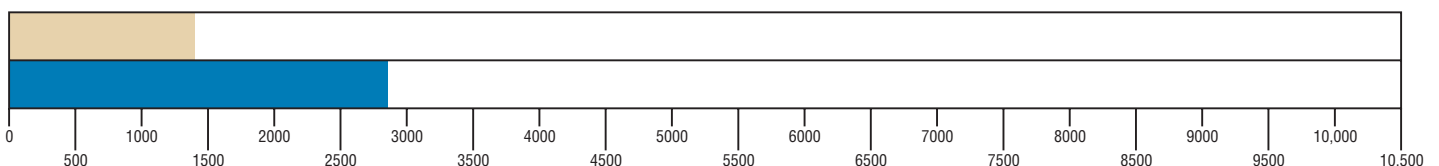
Acoustic Performance

SPL @ 100': 108dBC

Estimated 70dB range: 1,400'

Estimated 60dB range: 2,800'

Note: 100' performance levels listed represent repeatable results within +/-2dB to stated levels. Estimated 70dB perimeter is based on the Federal Emergency Management Agency's (FEMA) -10dB per distance doubled path model.



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