

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

- **OA3** – Three Omni-Directional Speaker Cells Assembled in a Vertical Column
- Two-Compartment (Type I) Natural Finish Aluminum Cabinet
- 115dBC @ 100'
- OA3 Speaker Cell Includes Three High Efficiency 400 Watt **EZ-PULL™** Speaker Drivers
- 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
- Three Power Amplifiers
- 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
- **OXKIT** - Upgrade Kit to Upgrade OA3 to an 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 dependent 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



OA3 Specification Data

| Component | Height Inches (CM) | Width Inches (CM) | Depth Inches (CM) | Weight Lbs. (KG) |
|------------------------------|--------------------|-------------------|-------------------|------------------|
| OA3 Speaker | 43.5 (110.5) | 32.5 (82.5) | — | 208 (94.4) |
| Electronics Cabinet - Type I | 32.5 (82.6) | 22.5 (57.2) | 10.5 (26.7) | 63 (28.5)* |
| 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:** 67A, 24VDC
- **Power Amplifier Output Power:** 1200 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:

- **OA3** - 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

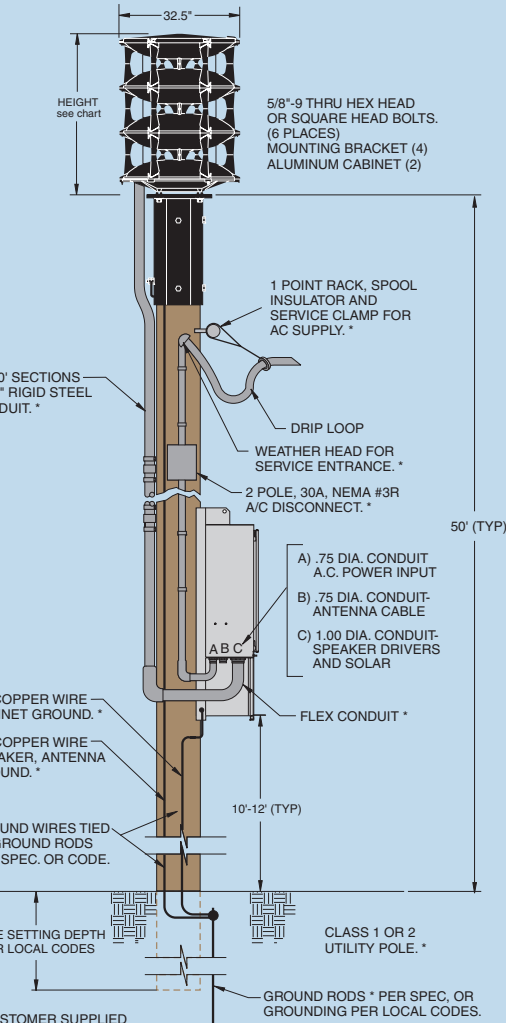
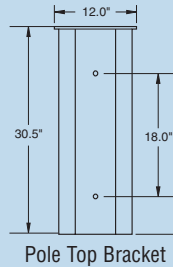
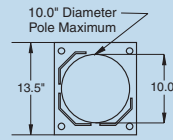
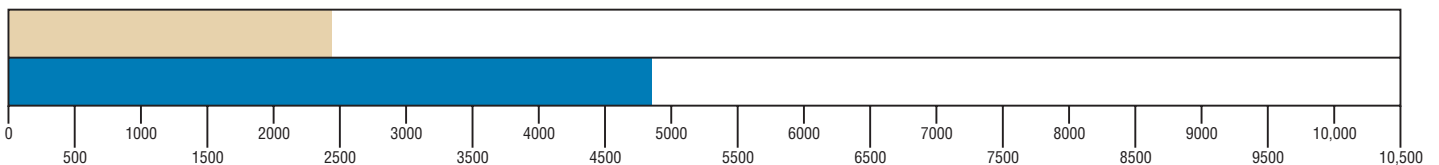
SPL @ 100': 115dB

Estimated 70dB range: 2,400'

Estimated 60dB range: 4,800'

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.



WHELEN[®]
ENGINEERING COMPANY, INC.

PUBLIC WARNING PRODUCTS

Route 145, Winthrop Road
Chester, Connecticut 06412-0684
(860) 526-9504
1-800-637-4736
Fax: (860) 526-4784
Internet: www.whelen.com
e-mail: iowsales@whelen.com

Whelen Engineering Company, Inc.
reserves the right to upgrade its products with design improvements without notification.
© 2005 Whelen Engineering Company, Inc.
Printed in the U.S.A.
070105-11696A