

## 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

- **OA4** - Four Omni-Directional Speaker Cells Assembled in a Vertical Column
- Speaker Pole Top Mounting Bracket Included
- Two-Compartment (Type I) Natural Finish Aluminum Cabinet
- 118dBC @ 100'
- OA4 Speaker Cell Includes Four 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
- Four 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<sup>①</sup>
- **BSETO** - Whelen Approved Batteries
- 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



# OA4 Specification Data

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (KG)
OA4 Speaker	57.9 (147.1)	33.4 (84.8)	—	254 (115)
Electronics Cabinet - Type I	32.5 (82.6)	22.5 (57.2)	10.5 (26.7)	83 (37.7)*
Pole Top Bracket	30.0 (76.2)	12.0 (30.5)	See Drawing	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: 89A, 24VDC
  - Power Amplifier Output Power: 1600 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:

- OA4 - Speaker Assembly, Electronics Cabinet & Pole Top Bracket

### 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
- BSETO - 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

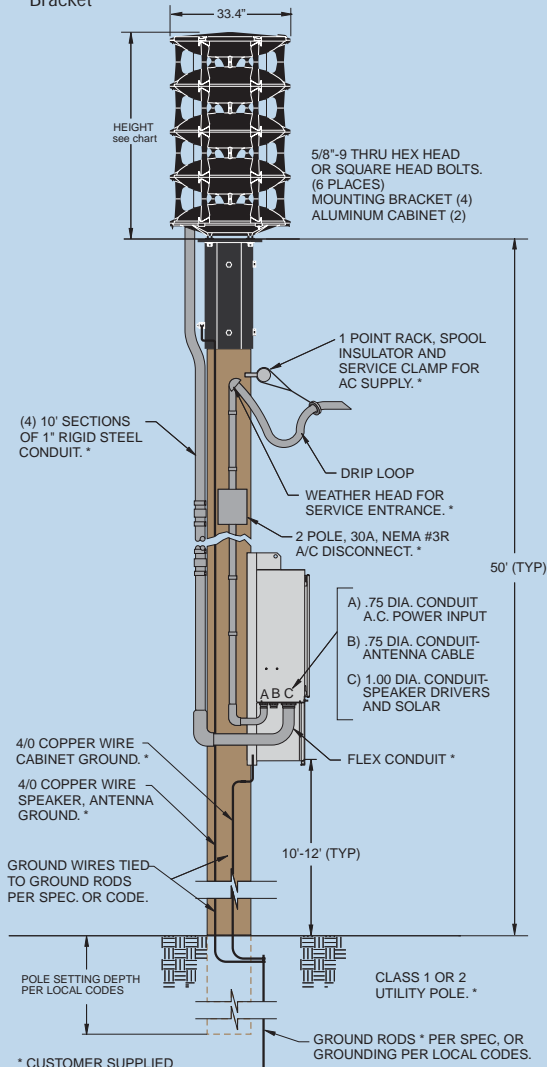
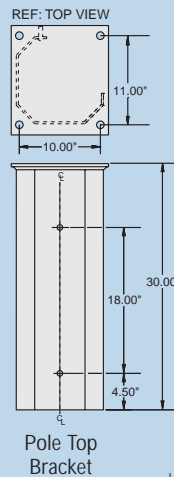
SPL @ 100': 118dB

Estimated 70dB range: 2,800'

Estimated 60dB range: 5,600'

Note: 100' performance levels listed represent repeatable results within +1/-1dB to stated levels.

Estimated 70dB perimeter is based on the Federal Emergency Management Agency's (FEMA) -10dB per distance doubled path model.



**WHELEN**<sup>®</sup>  
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](http://www.whelen.com)  
e-mail: [iowsales@whelen.com](mailto:iowsales@whelen.com)

Whelen Engineering Company, Inc.  
reserves the right to upgrade its products with design improvements without notification.  
© 2006 Whelen Engineering Company, Inc.  
Printed in the U.S.A.  
120406-11697C