

## Mass Notification Warning System

Whelen's All-Hazard WPS4004 Series High-Power Voice and Siren Systems deliver clear, powerful voice and siren communication.

### SYSTEM FEATURES

- WPS4004 - Speaker with Four Speaker Cells Active
- Two Compartment (Type II) Natural Finish Aluminum Cabinet
- 129dBc @ 100'
- WPS4004 Speaker Includes Four High Efficiency 400 Watt Speaker Drivers
- 15 m cable Included
- Public Address Capability
- Battery Powered, Minimum of 30 Minutes of Full Power Output with Batteries of Our Recommendation
- AC Temperature Compensated 10 Amp Battery Charger
- Local Controls or Remote Controls
- Four Power Amplifiers
- Electronic Siren Controller
- Tone Generator
- Timer
- Local Control Push Buttons
- Battery Switch
- SI TEST®
- Battery Tray
- Lightning Arrestor
- Six Standard Public Warning Tones - Wail, Whoop, Attack, Hi-Lo, Alert, Airhorn

### SYSTEM OPTIONS

- SBC280 - Solar Power <sup>1</sup>
- CTV110 - 12V 110Ah Batteries
- WPSNCMIC - Noise Cancelling Microphone
- Alternate Tone Set
- RDVM - Digital Voice Message Capability <sup>2</sup>

#### NOTES:

- 1 Solar power option includes 2 - 80 watt panels, mounting bracket and regulator
- 2 RDVM - 1-16 message capability with 240, 480 or 960 seconds available for recording

### 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®
- Low Battery Alarm (Two-Way only)

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

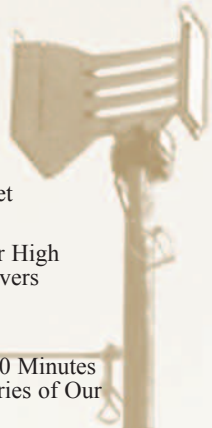
- AUXIN - Auxiliary Board for Contact Closure Activation
- D2020LL - 10 Digit DTMF Landline Activation
- D2020H - 10 Digit DTMF VHF High Band / 150-170 Mhz
- D2020U - 10 Digit DTMF UHF / 450-470 Mhz
- WPSTT - Two-Tone Sequential Option

#### TWO-WAY CONTROLS

- AUXCS - Two-Way Contact Closure Activation and Status Board
- C2020LL - Two-Way Landline Activation
- C2020H - 10 Digit DTMF VHF High Band / 150-170 Mhz
- C2020U - 10 Digit DTMF UHF / 450-470 Mhz
- C2020NH - 10 Digit DTMF VHF High Band Narrow-Band
- C2020NU - 10 Digit DTMF UHF Narrow-Band

#### Options:

- FSKXMOD - Converts the Above Siren Activation Controls to FSK Format
- STATUS - Cabinet Window LED Status Indicator
- PGINT - Paging Interface to Interface Whelen Tones with Existing Paging Systems
- INTRU - Intrusion Alarm (available with Two-Way only)



TYPE II  
ELECTRONIC  
CABINET

# WPS4004

## Specification Data

Component	Height CM (Inches)	Width CM (Inches)	Depth CM (Inches)	Weight KG (Lbs.)
WPS4003 SPEAKER	133.3 (52.5) <sup>Ⓟ</sup>	80.1 (31.6)	142.2 (56.0)	127.5 (281)
ELECTRONICS CABINET TYPE II <sup>Ⓟ</sup>	103 (40.7)	76 (30.0)	25.4 (10.0)	63.5 (140)

- Ⓟ A 6.00" wide mounting channel adds 3.50" in height and 2.00" in depth.
- Ⓢ Height with rotor.

**WHELEN**<sup>®</sup>  
ENGINEERING COMPANY, INC.  
PUBLIC WARNING PRODUCTS

**hss Engineering**  
Bredskiftevej 12  
DK 8210 Aarhus V  
Phone + 45 70 22 88 44  
Fax + 45 70 22 88 66  
www.hss.dk  
email hss@hss.dk

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5/8"-9 THRU HEX HEAD  
OR SQUARE HEAD BOLTS.  
(6 PLACES)  
MOUNTING BRACKET (4)  
ALUMINUM CABINET (2)

## ELECTRICAL

- Battery charger input: 120VAC, 60Hz, 7A Fuse (240 VAC 50/60 Hz available)
- Battery charger output: 28VDC, 10A (NOMINAL)
- Batteries: (2) 12V, 110AH Sealed Lead Calcium
- Standby current: 135mA, 24VDC
- Operating current: 89A, 24VDC
- Power amplifier output power: siren: 1600 Watts  
voice: 2000 Watts

## ENVIRONMENTAL

- Operating temperature: -35°C to +60°C
- Storage temperature: -65°C to +125°C
- Humidity, non condensing: 0 to 95%

## ORDERING INFORMATION

BASIC SYSTEM INCLUDES ALL OF THE FOLLOWING:

- WPS4004 - Speaker Assembly & Electronics Cabinet

OPTIONS:

- RDVM - Remote Station Digital Voice <sup>1</sup>
- AUXIN - Auxiliary Board for Contact Closure Activation
- AUXCS - Auxiliary / Status Control Board for Contact Closure Activation and Status
- D2020LL, D2020H, D2020U - One-Way Radio Control <sup>2</sup>
- C2020LL, C2020H, C2020U - Two-Way Radio Control / Status Monitoring, COMM/STAT™ <sup>4</sup>
- C2020NH, C2020NU - Two-Way Narrow-Band Radio Control / Status Monitoring, COMM/STAT™ <sup>4</sup>
- WPSTT - Two-Tone Sequential
- FSKXMOD - FSK Format
- STATUS - Cabinet Window LED Status Indicator
- PGINT - Paging Interface to Interface Whelen Tones with Existing Paging Systems
- INTRU - Intrusion Alarm
- SBC280 - Solar Power <sup>3</sup>
- CTV110 - One Pair of Batteries

NOTES

- RDVM - 1-16 message capability with 240, 480 or 960 seconds available for recording
- 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
- Solar power option includes 2 - 80 watt panels, mounting bracket and regulator
- Contact Factory

## Acoustic Performance

SPL @ 100': 129dBc

Estimated 70dB range: 6,000'

Estimated 60dB range: 12,000'

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.

