

WHELEN® 2909 Nine Cells

Mass Notification Warning Product

Whelen's Mass Notification WPS2900 series omni-directional voice product delivers clear, powerful voice communication.

- **WPS2909** - Nine Omni-Directional Speaker Cells Assembled in a Vertical Column
- Three Compartment (Type III) Natural Finish Aluminum Cabinet
- 128dB @ 100'
- WPS2909 Speaker Cell Includes Nine High Efficiency 400 Watt **EZ-PULL™** Speaker Drivers
- 50' Cable Included
- Pole Top Mounting Bracket 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
- Nine Power Amplifiers
- Electronic 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 ¹
- **WPSBATT** - Delco S2000 or Interstate Workaholic 31-MHD Batteries
- **WPSNCMIC** - Noise Canceling Microphone
- Alternate Tone Set
- **RDVM** - Digital Voice Message Capability ²

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

Activation Controls

Our VHF High and UHF Wide-Band 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 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 III
Electronic
Cabinet



WHELEN[®] 2909 Specifications

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (KG)
WPS2909 SPEAKER	120.4 (305.8)	33.4 (84.8)	—	509 (230.9)
ELECTRONICS CABINET TYPE III	69.5 (176.5)	30.0 (76)	14.0 (35.5)	213 (96.7)
POLE TOP BRACKET	30.5 (77)	12.0 (30.5)	See Drawing	71 (32)

Electrical

- **Battery Charger Input:** 120VAC, 60Hz, 7A Fuse (240 VAC 50/60 Hz available)
- **Battery Charger Output:** 28VDC, 10A (NOMINAL)
- **Batteries:** (4) 12V, 115AH Lead Calcium
- **Standby Current:** 135mA, 24VDC
- **Operating Current:** 199A, 24VDC
- **Power Amplifier Output Power:** **Tone:** 3600 Watts
Voice: 4500 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:

- **WPS2909** - Speaker Assembly & Electronics Cabinet
- OPTIONS:**
- **RDVM** - Remote Station Digital Voice ¹
- **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 ²
- **C2020LL, C2020H, C2020U** - Two-Way Radio Control / Status Monitoring, COMM/STAT™ ²
- **C2020NH, C2020NU** - Two-Way Radio Control / Status Monitoring, COMM/STAT™ ²
- **WPS TT** - 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 ³

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 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

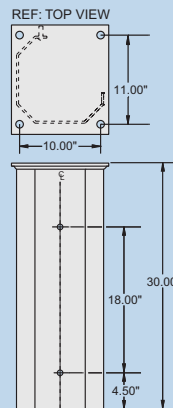
Acoustic Performance

SPL @ 100': 128dBC

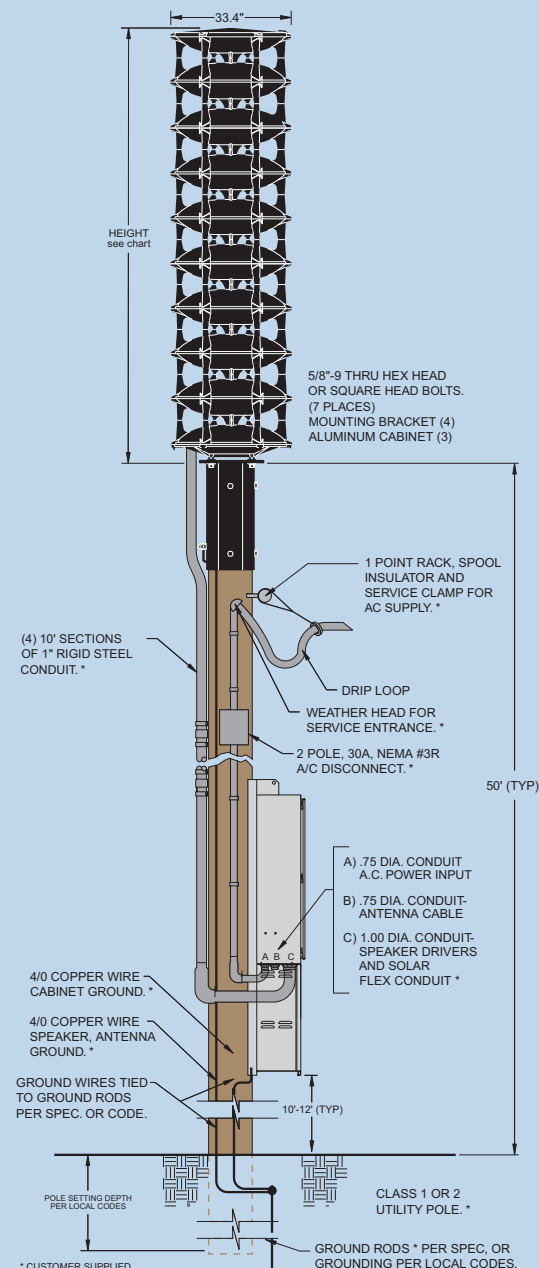
Estimated 70dB range: 5,800'

Estimated 60dB range: 11,600'

Note: 100' performance levels listed represent repeatable results within +/-1dB to stated levels. Estimated 70dB perimeter is based on the Federal Emergency Management Agency's (FEMA) -10dB per distance doubled path model.



Pole Top Bracket



WHELEN[®]
ENGINEERING COMPANY, INC.

MASS NOTIFICATION PRODUCTS

51 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

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