

WHELEN® 2901 1 Cell Siren

Mass Notification Warning System

Whelen's All-Hazard WPS2900 series omni-directional high-power voice and siren systems deliver clear, powerful voice and siren communication.

System Features

- WPS2901 - One Omni-Directional Speaker Cell Assembled in a Vertical Column
- Two Compartment (Type II) Natural Finish Aluminum Cabinet
- 109dBC @ 100'
- WPS2901 Speaker Cell Includes One High Efficiency 400 Watt EZ-PULL™ Speaker Driver
- 50' 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
- One Power Amplifier
- 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 ¹
- CTV110 - 12V 110Ah Batteries
- WPSNCMIC - Noise Cancelling 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

Siren Activation Controls

Our VHF High and UHF Wide-Band siren activation control packages include the following:

- Radio
- Radio Interface
- Tone Squelch
- 2-3dB Gain Omni-Directional Antenna with Bracket
- 15 m of RG213 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



WHELEN[®] 2901 Specifications

Component	Height cm (inches)	Width cm (inches)	Depth cm (inches)	Weight kg. (lbs)
WPS2901 SPEAKER	47.5 (18.7)	82.5 (32.5)	—	47 (102)
ELECTRONICS CABINET TYPE II	103 (40.7)	76 (30.0)	25.4 (10.0)	54 (117)

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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:** 23A, 24VDC
- **Power Amplifier Output Power:** Siren: 400 Watts
Voice: 500 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:

- **WPS2901** - Speaker Assembly & Electronics Cabinet
- **OPTIONS:**
- **CURRENT** - 120VAC or 240VAC
- **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 Narrow Band Radio Control / Status Monitoring, COMM/STAT™ ²
- **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 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 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

Acoustic Performance

SPL @ 100': 109dBc

Estimated 70dB range: 1,500'

Estimated 60dB range: 3,000'

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.

