# WPS2902 Two Cell

## Mass Notification Warning Product

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

### SYSTEM FEATURES

- **WPS2902** – Two omni-directional speaker cells assembled in a vertical column
- Two compartment (Type II) natural finish Aluminum or stainless steel cabinet
- Speaker cell includes two high efficiency 400 watt **EZ-PULL™** speaker drivers
- 50′ cable included
- Pole top mounting bracket included
- Public address and pre-recorded voice message capability
- AC temperature compensated "tri-mode" 10 amp battery charger
- Local or remote controls available
- Battery powered
- Two power amplifiers
- Electronic controller
- Tone Generator
- Timer
- Local control push-buttons
- Battery switch
- **RDVM1G** – digital voice option, one hour of message recording time
- **SI TEST®**
- **SLIDEOUT™** battery tray
- Lightning arrestor
- Six standard warning tones – Wail, Whoop, Alert, Attack, Hi-Lo, Airhorn

*WPS2902 with optional VALERTR and Solar SBC280*

### SYSTEM OPTIONS

- **Solar option** – 2 each 80 watt panels, with brackets and solar regulator
- **Batteries** – 2 each Delco S2000 or Interstate Workaholic 31-MHD Batteries. Check Whelen's web site, www.whelen.com, for other recommended batteries
- **Microphone** – for use at the cabinet (locally) or at the control point (remotely)

### ACTIVATION CONTROLS

Our VHF and UHF radio narrow-band control packages feature Whelen protocol COMM/STAT™ and include the following:
- Radio
- Radio interface
- Tone squelch
- 2-3 dB gain omni-directional antenna with bracket
- 35′ of RG58 antenna cable
- Polyphaser
- SI TEST
- Low battery alarm (two-way only)

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, from ACE, MOSCAD and FSK.

The following is available as standard options. **BLUE BOLD** indicates the Whelen Model:
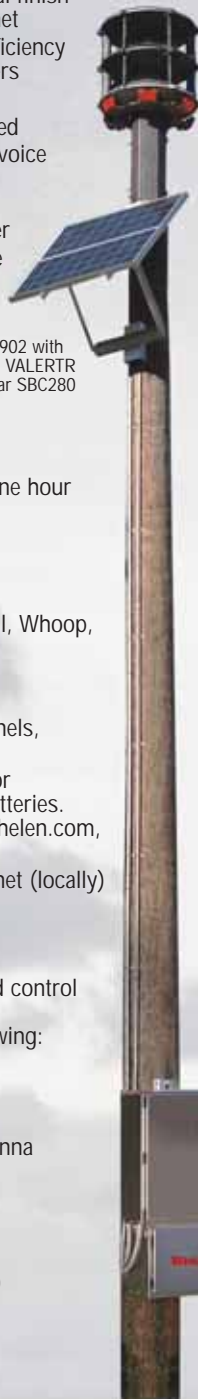
### ONE-WAY CONTROLS

- **AUXIN** – Auxilliary board for contact closure activation
- **D2030LL** – 10 digit DTMF Landline
- **D2030NV** – 10 digit DTMF VHF High-Band Narrow-Band
- **D2030NU** – 10 digit DTMF UHF Narrow-Band
- **WPSTT** – Two-tone sequential option (one-way radio package must be ordered from above options)

### TWO-WAY CONTROLS

- **AUXCS** – Two-way contact closure activation and status board
- **C2030LL** – Two-way landline activation
- **C2030NV** – 10 digit DTMF VHF High-Band Narrow-Band
- **C2030NU** – 10 digit DTMF UHF Narrow-Band

### OPTIONS

- **FSKXMOD** – Converts one-way and two-way controls above to FSK format
- **STATUS** – Cabinet window LED status indicator
- **PGINT** – Paging interface
- **INTRUWPS** – Intrusion alarm

*Type II Electronic Cabinet*

WHELEN

# WPS2902 Two Cell

**WHELEN®**

## Specifications

| Component | Height Inches (CM) | Width Inches (CM) | Depth Inches (CM) | Weight Lbs. (kg) |
|---|---|---|---|---|
| WPS2902 Speaker | 32.9 (83.6) | 33.4 (84.8) | – | 156 (70.8) |
| Electronics Cabinet Type II | 60.5 (153.7) | 33.2 (84.3) | 12 (30.5) | 139 (63.1) |
| Pole Top Bracket (Optional) | 30.5 (77) (with top plate) | 12.0 (30.5) x 13.5 (34.3) | See Drawing | 68 (30.9) |

Batteries add 115 lbs. Stainless cabinet option adds 58 lbs.
Pallets, boxes and skids add weight.  Check with Whelen if a freight quote is needed.

### Electrical

- **Battery Charger Input:** 120 VAC, 60 Hz, 7A fuse (240 VAC 50/60 Hz available)
- **Battery Charger Output:** 28 VDC, 10A (nominal)
- **Batteries:** (2) 12V, 115AH lead calcium
- **Standby Current:** 80mA, 24 VDC
- **Operating Current:** 45A, 24 VDC
- **Power Amplifier Output Power: Tone:** 800 Watts, **Voice:** 1000 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 THE FOLLOWING
- **WPS2902** – Speaker assembly with 50′ cable & electronics cabinet with all the standard components including voice boards for pre-recorded messages

OPTIONS
- **AUXIN** (one-way) / **AUXCS** (two-way) – Auxiliary boards for contact closure activation
- **D2030LL/D2030NV/D2030NU** – One-way controls
- **C2030LL / C2030NV / C2030NU** – Two-way controls
- **WPSTT** – Two-tone sequential
- **FSKXMOD** – FSK format
- **STATUS** – Cabinet window LED status indicator
- **PGINT** – Paging interface
- **INTRUWPS** – Intrusion alarm (two-way only)
- **MSGPROG** – Custom pre-recorded messages
- **MSGPROGL** – Whelen library messages
- **WPSNCMIC** – Microphone for public address use at the cabinet
- **WPSBATT** – One pair of Whelen approved batteries
- **RTM** – Roof top mount
- **SBC280** – Solar option

OPTIONAL LIGHTING ACCESSORIES
- **VALERT*** - VisuAlert™ lighting accessory
- **L31H*F4** – L31 LED, 24VDC
- **SB24*** - 24VDC Strobe
- **SCWPS** – Strobe/LED controller with mounting plate, hardware and harnessing for ISB24
- **LCWPS** – LED controller with mounting plate, hardware and harnessing for L31
- **STCTRL** – Strobe controller only
- **LEDCTRL** – LED controller only

  * Specify color **A**=Amber, **B**=Blue, **R**=Red, **C**=White/Clear, **G**-Green

### Acoustic Performance

**Wattage:** 800 watts
**Estimated Range:** 2,400 ft / 732 m

Weather, terrain and other structures may impact the range.  Each siren within the system may have a decreased or increased range depending on conditions beyond our control.

*"Our Mass Notification Products Speak for Themselves"™*



33.4"

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

HEIGHT see chart

1 POINT RACK, SPOOL INSULATOR AND SERVICE CLAMP FOR AC SUPPLY. *

(4) 10' SECTIONS OF 1" RIGID STEEL CONDUIT. *

DRIP LOOP

WEATHER HEAD FOR SERVICE ENTRANCE. *

2 POLE, 30A, NEMA #3R A/C DISCONNECT. *

A) .75 DIA. CONDUIT A.C. POWER INPUT

B) .75 DIA. CONDUIT- ANTENNA CABLE

C) 1.00 DIA. CONDUIT- SPEAKER DRIVERS AND SOLAR

50' (TYP)

FLEX CONDUIT *

4 AWG COPPER WIRE CABINET GROUND. *

4 AWG COPPER WIRE SPEAKER, ANTENNA GROUND. *

10'-12' (TYP)

GROUND WIRES TIED TO GROUND RODS PER SPEC. OR CODE.

POLE SETTING DEPTH PER LOCAL CODES

CLASS 1 OR 2 UTILITY POLE. *

GROUND RODS * PER SPEC, OR GROUNDING PER LOCAL CODES.

* CUSTOMER SUPPLIED

12    13.5
10"   11"
1" Clearence between top of pole and inside bottom of bracket
18"  30"    18"  30"
7.5"            4.5"
Customer Supplied Pole 9.5" Dia. (+/- 0.5)

Pole Top Bracket

---