WPS2903 Three Cell

WHELEN ®
MANUFACTURED IN AMERICA

Mass Notification Warning Product

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

SYSTEM FEATURES

- **WPS2903** – Three omni-directional speaker cells assembled in a vertical column
- Two compartment (Type II) natural finish aluminum or stainless steel cabinet
- Speaker cell includes three high efficiency 400 watt **EZ-PULL™** speaker drivers
- 50′ cable included
- Pole top mounting bracket included
- Public address and pre-recorded voice message capability
- Battery powered
- Three power amplifiers
- Electronic controller
- Local or remote controls available
- AC temperature compensated "tri-mode" 10 amp battery charger
- 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

WPS2903 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:
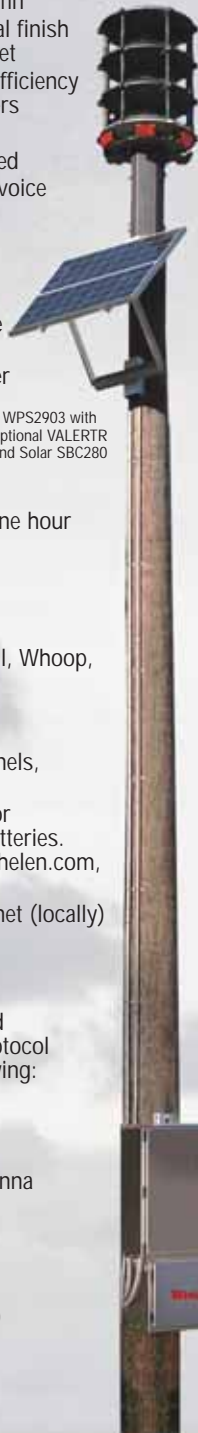
ONE-WAY CONTROLS

- **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

®L (UL mark)

WPS2903 Three Cell

WHELEN®

Specifications

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (kg)
WPS2903 Speaker	45.4 (115.3)	33.4 (84.8)	–	205 (93)
Electronics Cabinet Type II	60.5 (153.7)	33.2 (84.3)	12 (30.5)	147 (66.7)
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:** 120VAC, 60Hz, 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:** 67A, 24 VDC
- **Power Amplifier Output Power: Tone:** 1200 Watts, **Voice:** 1500 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
- **WPS2903** – 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
- **ISB24*** - 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: 1200 watts
Estimated Range: 3,000 ft / 915 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"™

HEIGHT see chart

33.4"

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

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

B) .75 DIA. CONDUIT-ANTENNA CABLE

C) 1.00 DIA. CONDUIT-SPEAKER DRIVERS AND SOLAR

A B C

FLEX CONDUIT *

4 AWG COPPER WIRE CABINET GROUND. *

4 AWG COPPER WIRE SPEAKER, ANTENNA GROUND. *

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

10'-12' (TYP)

POLE SETTING DEPTH PER LOCAL CODES

CLASS 1 OR 2 UTILITY POLE. *

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

* CUSTOMER SUPPLIED

12" 10" 13.5" 11"

1" Clearance between top of pole and inside bottom of bracket

18" 30" 18" 30"

7.5" 4.5"

50' (TYP)

Customer Supplied Pole 9.5" Dia. (+/- 0.5)

Pole Top Bracket