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

- **WPS2904** Four omni-directional speaker cells assembled in a vertical column
- Two compartment (Type II) natural finish aluminum or stainless steel cabinet
- Speaker cell includes four high efficiency 400 watt EZ-Pull™ speaker drivers
- 50' (15.24m) cable included
- Pole top mounting bracket included
- Public address and pre-recorded voice message capability
- Local or remote controls available
- Battery powered
- Four power amplifiers

- AC temperature compensated "tri-mode" 10 amp battery charger
- Electronic controller
- Tone Generator Timer
- Local control push-buttons
- Battery switch
- **RDVM1G** - digital voice 1-28 message capable
- **SI TEST®**
- **SLIDEOUT™** battery tray
- Lightning arrestor
- Six standard warning tones - Wail, Whoop, Alert, Attack, Hi-Lo, Airhorn

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 website, www.whelenmassnotification.com, for other recommended batteries
- **Microphone** - for use at the cabinet (local) or at the control point (remotely)
- **VisuAlert™** - Omni-Directional visual warning Model **VALERT*** for 2900 Series
- **L31H*F4** - Top mount high dome beacon for 2900 Series, 24 VDC

SIGNALING

C **UL** US
LISTED

Whelen Engineering Company, Inc.

⚠️ **WARNING:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

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ACTIVATION CONTROLS

Our VHF and UHF radio narrow-band control packages feature Whelen protocol COMM/STAT and include the following:

- Radio
- Radio interface
- Tone or digital squelch
- 3-5 dB gain omni-directional antenna with bracket

- 35' (10.67 m) 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. **BOLD BLACK** in callout 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 / 136-174 MHz
- **D2030NU** - 10 digit DTMF UHF Narrow-band / 450-470 MHz
- **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 Narrow-Band / 136-174 MHz
- **C2030NU** - 10 digit DTMF UHF Narrow-Band / 450-470 MHz

OPTIONS
- **STATUS** - Cabinet window LED status indicator
- **PGINT** - Paging interface
- **INTRUWPS** - Intrusion Alarm

SPECIFICATIONS

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (kg)
WPS2904 Speaker	56.00 (142.24)	33.40 (84.84)	-	266 (120.65)
Electronics Cabinet Type II (Aluminum)*	60.50 (153.67)	33.20 (84.33)	12.0 (30.50)	154 (69.90)
Pole Top Bracket	30.50 (77.47) (with top plate)	12.0 (30.50) x 13.50 (34.30)	See Drawing	71 (32.20)

*Batteries add 115 lbs. (52.16 kg) *Stainless cabinet option adds 58 lbs. (26.31 kg). Pallets, boxes and skids add weight. Check with Whelen if a freight quote is needed.*

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ELECTRICAL

- Battery Charger Input: 120 VAC, 60Hz, 7A fuse (240 VAC 50/60 Hz available)
- Battery Charger Output: 28 VDC, 10A (nominal)
- Batteries: (2) 12V, 115 AH lead calcium
- Standby Current: 82mA, 24 VDC
- Operating Current: 89A, 24 VDC
- Power Amplifier Output Power: Tone: 1600 watts,

ACOUSTIC PERFORMANCE

- Wattage: 1600 watts
- Estimated 70dB Range: 3,500 ft / 1067 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

ENVIRONMENTAL

- Operating Temperature: -40°C to +60°C
- Storage Temperature: -65°C to +125°C
- Humidity, Non Condensing: 0 to 95%

ORDERING INFORMATION

Basic system includes the following:

- **WPS2904** - Speaker assembly with 50' (15.24m) cable and electronic cabinet with all the standard components including voice board for 1-28 pre-recorded messages and Pole Top Bracket

OPTIONS

- **AUXIN (one-way) / AUXCS (two-way)** - Auxiliary boards for contact closure activation
- **D2030LL / D2030NV / D2030NU** - One-way controls
- **C2030LL / C2030NV / C203NU** - Two-way controls
- **WPSTT** - Two-tone sequential
- **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
- **LCWPS** - LED controller with mounting plate, hardware and harnessing for L31
- **LEDCTRL** - LED controller only
  *Specify color A=Amber, B=Blue, R=Red, C=White/Clear

Type II Electronic Cabinet
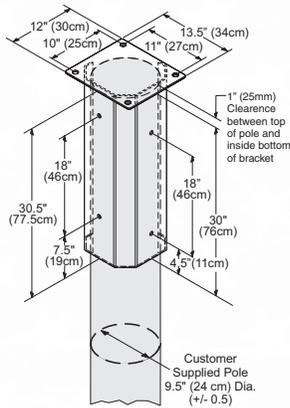
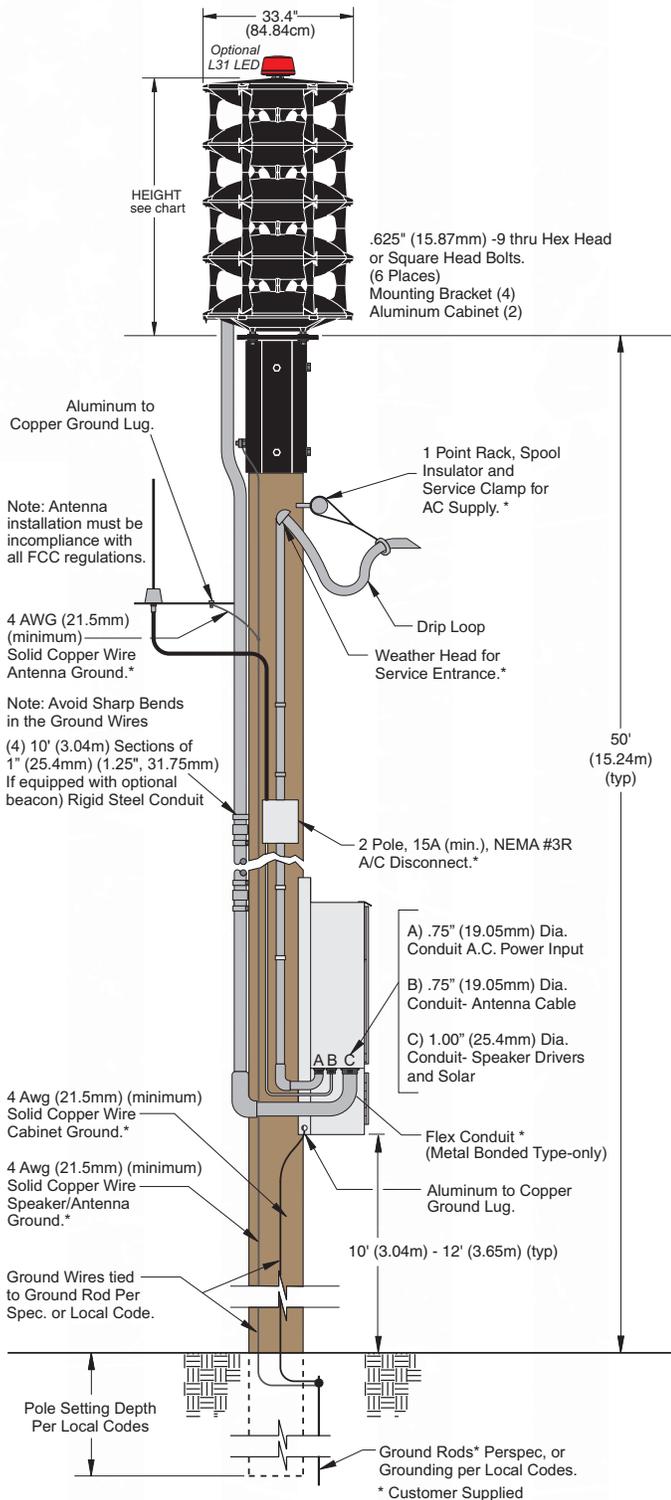**Whelen Engineering Company, Inc.**

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TECH DRAWING

"Our Mass Notification Products Speak for Themselves™"

12" (30cm)
10" (25cm)
13.5" (34cm)
11" (27cm)

1" (25mm) Clearence between top of pole and inside bottom of bracket

18" (46cm)
18" (46cm)
30.5" (77.5cm)
30" (76cm)
7.5" (19cm)
4.5" (11cm)

Customer Supplied Pole 9.5" (24 cm) Dia. (+/- 0.5)

Pole Top Bracket

33.4" (84.84cm)

Optional L31 LED

HEIGHT see chart

.625" (15.87mm) -9 thru Hex Head or Square Head Bolts. (6 Places)
Mounting Bracket (4)
Aluminum Cabinet (2)

Aluminum to Copper Ground Lug.

1 Point Rack, Spool Insulator and Service Clamp for AC Supply. *

Note: Antenna installation must be incompliance with all FCC regulations.

Drip Loop

4 AWG (21.5mm) (minimum) Solid Copper Wire Antenna Ground.*

Weather Head for Service Entrance.*

Note: Avoid Sharp Bends in the Ground Wires

(4) 10' (3.04m) Sections of 1" (25.4mm) (1.25", 31.75mm) If equipped with optional beacon) Rigid Steel Conduit

50' (15.24m) (typ)

2 Pole, 15A (min.), NEMA #3R A/C Disconnect.*

A) .75" (19.05mm) Dia. Conduit A.C. Power Input

B) .75" (19.05mm) Dia. Conduit- Antenna Cable

C) 1.00" (25.4mm) Dia. Conduit- Speaker Drivers and Solar

A B C

4 Awg (21.5mm) (minimum) Solid Copper Wire Cabinet Ground.*

Flex Conduit * (Metal Bonded Type-only)

4 Awg (21.5mm) (minimum) Solid Copper Wire Speaker/Antenna Ground.*

Aluminum to Copper Ground Lug.

10' (3.04m) - 12' (3.65m) (typ)

Ground Wires tied to Ground Rod Per Spec. or Local Code.

Pole Setting Depth Per Local Codes

Ground Rods* Perspec, or Grounding per Local Codes.

* Customer Supplied

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