

WPS4004 Four Cell



Mass Notification Warning System

Whelen's All-Hazard WPS4004 Series High-Power Voice and Siren Systems deliver clear, powerful voice and siren communication.

SYSTEM FEATURES

- **WPS4004** - Speaker with four active speaker cells
- Two compartment (Type II) natural finish aluminum or stainless steel cabinet
- WPS4004 speaker includes four high efficiency 400 watt speaker drivers
- 50' (15.24m) Cable
- Pole top mounting bracket
- Public address and pre-recorded voice message capability
- Battery powered. Minimum of 30 minutes of full power output, with batteries of our recommendation.
- AC temperature compensated "tri-mode" 10 amp battery charger
- Local or remote controls available
- Four power amplifiers
- Electronic siren controller
- Tone generator timer
- Local control push-buttons
- Battery switch
- **RDVM1G** – digital voice 1-28 message capable
- **SI TEST**®
- **SLIDEOUT**™ - Pull out battery tray
- Lightning arrestor
- Six standard public warning tones: Wail, Whoop, Attack, Hi-Lo, Alert, 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. Also, check Whelen's web site for other recommended batteries.
- **Microphone** - noise cancelling microphone for use at the cabinet (locally) or at the control point (remotely)

SIREN ACTIVATION CONTROLS

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

- Radio
- Radio interface
- Tone or digital squelch
- 3-5dB gain omni-directional antenna with bracket
- 35' (10.67m) 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. The following is available as standard options. Contact factory for special applications.



The following is available as standard options. **BOLD BLUE** indicates the Whelen Model:

ONE-WAY CONTROLS

- **AUXIN** - auxiliary board for contact closure activation
- **D2030LL** - 10 Digit DTMF landline activation / 138-174MHz
- **D2030NV** - 10 Digit DTMF VHF high band narrow band / 450-470 MHz
- **D2030NU** - 10 Digit DTMF UHF narrow-band
- **WPSTT** - Two-tone sequential option

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 / 138-174MHz
- **C2030NU** - 10 Digit DTMF UHF narrow-band / 450-470 MHz

OPTIONS

- **STATUS** - cabinet window LED status indicator
- **PGINT** - paging interface to interface Whelen tones with existing paging systems
- **INTRUWPS** - intrusion alarm (available with two-way only)



TYPE II ELECTRONIC CABINET

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Specifications

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (kg)
WPS4004 Speaker	52.5 (133.35) (Including Rotor)	29.0 (73.6)	56.0 (142.24)	281 (127.50)
Electronics Cabinet Type II (Aluminum*) ①	60.5 (153.67)	33.20 (84.33)	12.0 (30.50)	147 (66.70)**
Pole Top Bracket	30.5 (77.47) (with top plate)	12.0 (30.5) x 13.5 (34.3)	See Drawing	71 (32.20)

*Stainless cabinet option adds 58 lbs. (26.30 kg)

① A 6.00" Wide Mounting Channel adds 3.50" in Height and 2.00" in Depth.

** Less batteries. Two batteries, add 115 Lbs. (40.9kg)

Electrical

- **Battery charger input:** 120VAC, 60Hz, 7A fuse (240VAC 50/60 Hz available)
- **Battery charger output:** 28VDC, 10A (nominal)
- **Batteries:** (2) 12V, 115AH lead calcium
- **Standby current:** 82mA, 24VDC
- **Operating current:** 89A, 24VDC
- **Power amplifier output power:** **Tone:** 1600 Watts
Voice: 2000 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

- **WPS4004** –Speaker assembly with 50' (15.24m) cable & electronics 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 radio control
- **C2030LL, C2030NV, C2030NU** – Two-way radio control / status monitoring, COMM/STAT™
- **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
- **SBC280** – Solar option

Acoustic Performance

Wattage: 1600 watts

Estimated 70dB Range: 6,000 ft / 1829 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.

HSS

ENGINEERING
WARNING SYSTEM SOLUTIONS

Laegaardsvej 12
8520 Lystrup · Denmark
Phone + 45 7022 8844
Fax + 45 7022 8866
www.hss.dk · info@hss.dk

