WPS2900 Series

WHELEN® TRUSTED TO PERFORM™

Mass Notification Warning Product

ALERT and INFORM

The basic purpose of a Mass Notification Product is the ability to ALERT through a tone and INFORM through voice. If your siren system is producing only a tone, then it's only doing half it's job!

The most effective way to warn the public is to issue a tone warning and follow it with a clear, deliberate and powerful voice message. This two step approach, *ALERT* and *INFORM*, will eliminate confusion, restore order and most importantly, save lives.

Our WPS2900 Series accomplishes this in two ways. One is to *ALERT*, the other is to *INFORM* through omni-directional voice and tone warning.

The WPS2900 Series delivers voice warning and broadcasting of unequalled clarity at uniform power levels (+/- 1dB) throughout 360°.

WPS2905

UL LISTED

TYPE III ELECTRONIC CABINET

TYPE II ELECTRONIC CABINET

⚠ **WARNING:** These products 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.

Ten models serve a wide variety of applications as shown here in ratio to a person's size.

WPS2900 Series

WHELEN®

Public and Industrial Warning for Every Application

WHELEN EZ-PULL™ SPEAKER DRIVER

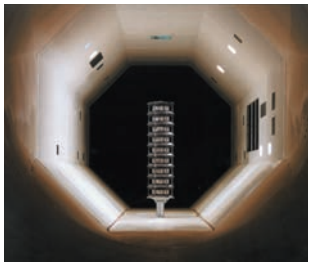
Notice in these photos how easy it is to remove a 2900 Series speaker driver. Each speaker cell uses one ***EZ-PULL*** 400 watt driver, eliminating distortion and power loss that occurs from mixing the outputs of multiple speaker drivers in a cell - as found in competitive products. The EZ-PULL driver is Whelen Engineering's latest innovation. A handled plate connected to our 400 watt driver is an industry first.

Serviceability has never been easier!

WHELEN'S 2900 SERIES

Whelen 400 Watt Speaker Driver shown with Standard 100 Watt Speaker Driver.

Whelen WPS2910 installed on site in Columbus, Georgia .



Whelen WPS2900 Series products are wind-tunnel tested to insure performance and reliability in the most trying conditions.

Whelen 2900 Type III Cabinet with "SLIDEOUT" battery trays.

Type II Electronics Assembly detail.

PRODUCT FEATURES

- Choice of one to ten omni-directional speaker cells assembled in a vertical column
- Ten models, 400 Watts to 4,000 Watts
- All WPS2900 speaker cells include our high efficiency 400 watt ***EZ-PULL*** speaker drivers
- 50' (15.24m) cable included
- Pole top mounting bracket included
- Two or three compartment natural finish aluminum cabinet or stainless steel
- Public address capability, live voice and pre-recorded messages
- 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 controls or remote controls
- Independent power amplifiers, one per 400 watt speaker driver
- Electronic controller
- Tone generator timer
- Local control push buttons
- **SLIDEOUT™** battery tray
- **RDVM1G -** Digital voice 1-28 message capability
- Battery switch

PRODUCT OPTIONS

L31LRF4

- **L31H*F4 -** Top Cell of 2900 Series high dome warning beacon, 24 VDC
- **VALERT* -** VisuAlert™ omni-directional visual LED warning lighting
- **SBC280 -** Solar power [1]
- Alternate tone set
- **WPSBATT -** Delco S2000 or Interstate Workaholic 31-MHD batteries
- **WPSNCMIC -** Noise cancelling microphone

VALERTR Visual Warning

SBC280 Solar Power Option

NOTES:

1 Solar power option includes Two - 80 watt panels, mounting bracket and regulator

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

BLUE type in the "callout ■" indicates a Whelen model number

SIX STANDARD WARNING TONES

TONE	TONE SYMBOL	FREQUENCY	SWEEP RATE
WAIL		410 - 675	4 sec/1 sec
ALERT		560	Steady
HI/LO		465/650	.8 sec/.8 sec
ATTACK		410 - 490	1 sec/1 sec
AIR HORN		465 - 650	Modulated/1.6 sec
WHOOP		300 - 465	3

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ACTIVATION CONTROLS

Our VHF High and UHF activation control packages 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 from ACE, Motorola's MOSCAD, FSK, including 800Mhz trunking, Narrow-Band and VHF. The following is available as standard options. Contact factory for special applications.

ONE-WAY CONTROLS

- **AUXIN -** Auxiliary board for contact closure activation
- **D2030LL -** 10 digit DTMF landline activation
- **D2030NV -** 10 digit DTMF VHF High-Band Narrow-Band / 138-174 Mhz
- **D2030NU -** 10 digit DTMF UHF Narrow-Band / 450-470 Mhz
- **WPSTTU -** 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 / 138-174 Mhz
- **C2030NU -** 10 digit DTMF UHF Narrow-Band 450-470 Mhz

OPTIONS:

- **STATUS -** Cabinet window LED Status Indicator
- **PGINT -** Paging interface to interface Whelen audio, voice and tones with existing paging systems
- **INTRUWPS -** Intrusion alarm (available with two-way only)

LIVE PUBLIC ADDRESS AND PRE-RECORDED MESSAGES

ALERT and ***INFORM!*** This two-step procedure is accomplished through live public address and pre-recorded voice messages. Notify YOUR community, base or campus with messages specific to YOUR needs.

- Live public address standard
- From 1 to 28 verbal messages and musical renditions of varying lengths may be programmed into all modules
- Variable length messaging standard

SI TEST

Only Whelen's diagnostic silent test, SI TEST, fully exercises the system without disturbing the public. Diagnostic SI TEST information includes the following:

- AC power On/Off
- DC power at operational levels
- Partial speaker driver / power amplifier operation
- Full speaker driver / power amplifier operation

Whelen products are pre-assembled, pre-wired and tested at our facility to ensure product quality and reliability!

Testing Station

2900 Series Speakers Assembly

Type II Cabinet Assembly

Type III Cabinet Assembly

Repair Facility

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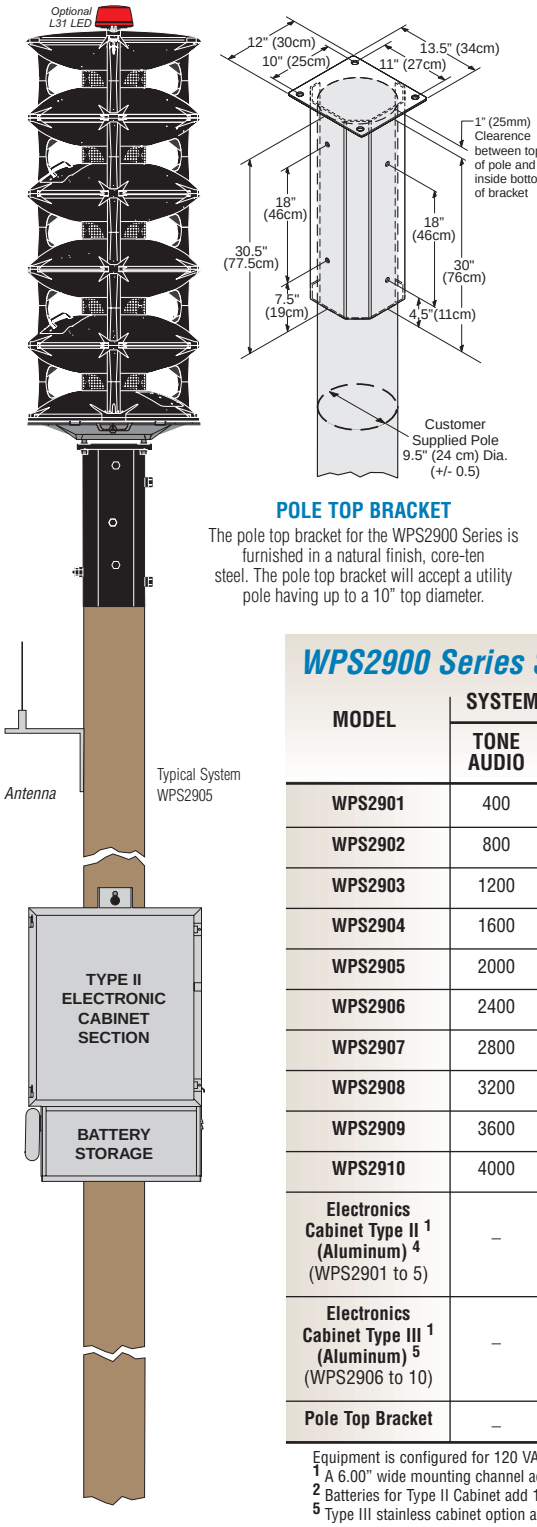
WPS2900 Series

Specifications



POLE TOP BRACKET

The pole top bracket for the WPS2900 Series is furnished in a natural finish, core-ten steel. The pole top bracket will accept a utility pole having up to a 10" top diameter.

PRODUCT SUPPORT

At Whelen Engineering, we not only design and manufacture the best warning products available, we stand behind every product we make. For a copy of our warranty, write to us at our main office in Chester, Connecticut.

If you're interested in the most reliable, the most up-to-date warning products -- and the service that comes with it -- give us a call. Find out why Whelen Engineering is "The First Name In Mass Notification".

A product specification sheet with installation details is available for each WPS2900 Series Mass Notification Product.

MASS NOTIFICATION PRODUCTS

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Whelen Engineering Company, Inc. reserves the right to upgrade its products with design improvements without notification.

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"Our Mass Notification Products Speak for Themselves"™

WPS2900 Series Specifications

MODEL	SYSTEM WATTAGE		HEIGHT Inches (CM)	WIDTH Inches (CM)	DEPTH Inches (CM)	SPEAKER ASSEMBLY WEIGHT lbs. (KG)	ELECTRONIC CABINET WEIGHT lbs. (KG) [4]	ELECTRONIC CABINET TYPE
	TONE AUDIO	VOICE AUDIO						
WPS2901	400	500	18.8 (47.75)	33.4 (84.8)	_	119 (53.97)	132 (59.9) [2]	Type II
WPS2902	800	1000	31.2 (79.24)	33.4 (84.8)	_	168 (76.20)	139 (63.1) [2]	Type II
WPS2903	1200	1500	43.6 (110.74)	33.4 (84.8)	_	217 (98.42)	147 (66.7) [2]	Type II
WPS2904	1600	2000	56.0 (142.24)	33.4 (84.8)	_	266 (120.65)	154 (69.9) [2]	Type II
WPS2905	2000	2500	68.4 (173.73)	33.4 (84.8)	_	315 (142.88)	162 (73.4) [2]	Type II
WPS2906	2400	3000	80.8 (205.23)	33.4 (84.8)	_	388 (175.99)	171 (77.5) [3]	Type III
WPS2907	2800	3500	93.2 (236.72)	33.4 (84.8)	_	437 (198.22)	218 (98.9) [3]	Type III
WPS2908	3200	4000	105.6 (268.22)	33.4 (84.8)	_	487 (220.89)	225 (102.1) [3]	Type III
WPS2909	3600	4500	118.0 (299.72)	33.4 (84.8)	_	535 (242.67)	233 (105.7) [3]	Type III
WPS2910	4000	5000	130.4 (331.21)	33.4 (84.8)	_	584 (264.89)	240 (108.9) [3]	Type III
Electronics Cabinet Type II [1] (Aluminum) [4] (WPS2901 to 5)	_	_	60.50 (153.67)	33.20 (84.33)	12.0 (30.50)	_	_	_
Electronics Cabinet Type III [1] (Aluminum) [5] (WPS2906 to 10)	_	_	74.5 (189.23)	33.20 (84.33)	12.0 (30.50)	_	_	_
Pole Top Bracket	_	_	30.5 (77.47)	12.0 (30.50)	13.5 (34.30)	_	_	_

Equipment is configured for 120 VAC input power, other input voltages supplied upon request.
[1] A 6.00" wide mounting channel adds 3.50" in height and 2.00" in depth.
[2] Batteries for Type II Cabinet add 115 lbs. (52.16 kg) [3] Batteries for Type III Cabinet add 230 lbs. (104.32 kg) [4] Type II stainless cabinet option adds 58 lbs. (26.30 kg)
[5] Type III stainless cabinet option adds 80 lbs. (36.29 kg) Pallets, boxes and skids add weight. Check with Whelen if a freight quote is needed.

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