

WPS-2800-1

High-Power Voice and Siren System

Whelen's WPS-2800 Series Omni-Directional High-Power Voice and Siren Systems deliver clear and powerful voice and siren communication.

WPS-2800-1 BASIC SYSTEMS

Speaker Assembly

One WPS-2800 Speaker Cell, 50' of speaker cable and pole top mounting bracket.

Electronics Cabinet

Two compartment, natural finish aluminum Type II case.

Upper compartment: One Power Amplifier; System Motherboard; Power Supply; ESC-864 Electronic Siren Controller with integral timer, tone generator, local controls and microphone jack; battery switch and battery charger.

Lower compartment: two heavy duty lead calcium batteries and battery tray.

SYSTEM FEATURES

- 108dBc @ 100'.
- 1,400' Estimated 70dB Warning Perimeter.
- Six Warning Tones.
- Public Address.
- Battery Powered with AC temperature compensated Battery Charger.
- Local Controls or Remote Controls.
- One High Efficiency 400 Watt Speaker Driver. (One Per High Gain Cell).

OPTIONS

- Diagnostic Silent Test (SI TEST®).
- Remote Station Status Monitoring, COMM/STAT™.
- Remote Station Digital Voice up to 16 messages.
- Solar Power.

WHELEN[®]
ENGINEERING COMPANY, INC.



Acoustic Performance

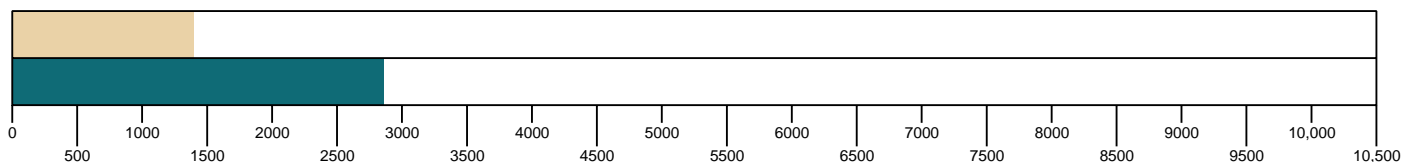
SPL @ 100': 108dBc

Estimated 70dB range: 1,400'

Estimated 60dB range: 2,800'

Note: 100' performance levels listed represent repeatable results within +/-2dB to stated levels.

Estimated 70dB perimeter is based on the Federal Emergency Management Agency's (FEMA) -10dB per distance doubled path model.



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Specification Data

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (KG)
WPS-2800-1 SPEAKER	18.7 (47.5)	32.5 (82.5)	—	116 (52.6)
ELECTRONICS CABINET TYPE II	40.7 (103)	30.0 (76)	10.0 (25.4)	233 (105.9)
POLE TOP BRACKET	30.5 (77)	12.0 (30.5)	10.0 (25.4)	71 (32)

ELECTRICAL

Battery Charger Input: 120VAC, 60Hz, 7A fuse
 Battery Charger Output: 28VDC, 10A
 Batteries: (2) 12V, 115AH lead calcium
 Standby Current: 135mA, 24VDC
 Operating Current: 23A, 24VDC
 Power Amplifier Output Power:
 Siren: 400 Watts
 Voice: 500 Watts

ENVIRONMENTAL

Operating Temperature:
 -35°C to +60°C
 Storage Temperature:
 -65°C to +125°C
 Humidity, Non Condensing:
 0 to 95%

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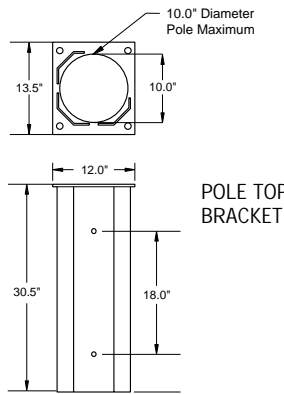
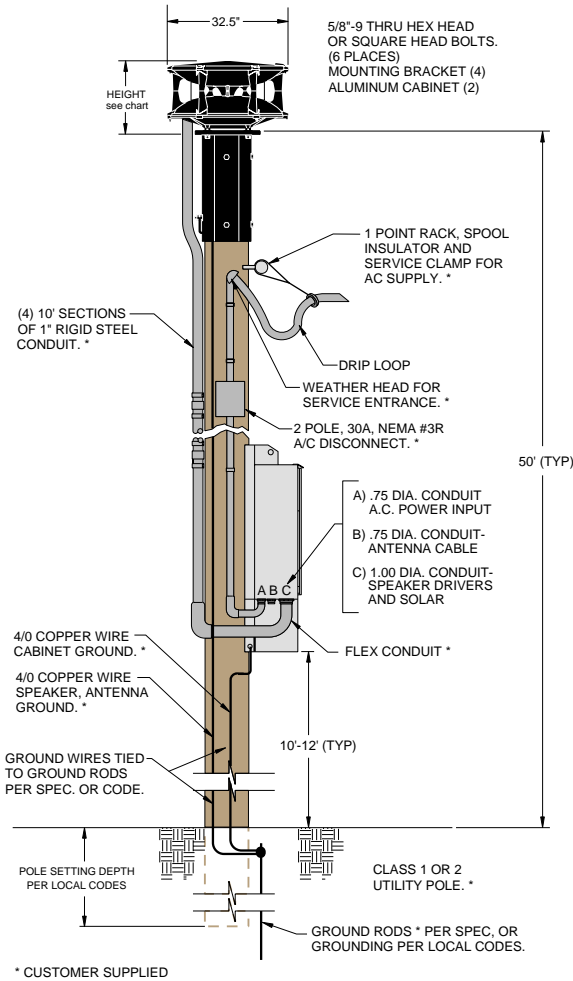
ORDERING INFORMATION

Basic System: WPS-2800-1 Basic System Options:

- STP666: Diagnostic Silent Test, SI TEST[®]
- RDVM: Remote Station Digital Voice¹
- D86410, D864L10, D864H10, D864U10: One-Way Radio Control²
- C86410, C864L10, C864H10, C864U10: Two-Way Radio Control/Status Monitoring, COMM/STAT^{TM2}
- CTCSS-R: Tone Squelch, Receive
- CTCSS-RT: Tone Squelch, Receive and Transmit
- INTRU: Intrusion Alarm
- LBALARM: Low Battery Alarm
- SBC-2/40, SBC-2/60: Solar Power³

NOTES

1. 1-16 messages available. Available message lengths: 15, 30 or 60 seconds.
2. 10 Digit DTMF Controls.
 Landline
 VHF Low Band (L), 30 - 50Mhz
 VHF High Band (H), 150 - 170Mhz
 UHF (U), 450 - 470Mhz
 VHF Low Band systems equipped with unity gain antenna. VHF High Band and UHF Systems equipped with 2 - 3dB gain omni-directional antenna. 35' RG58 antenna cable and antenna mounting bracket included.
3. Solar power option includes 2 - 40 or 2 - 60 watt panels, mounting bracket and regulator. (SBC-2/40, SBC-2/60).



TYPE II
ELECTRONIC
CABINET

* CUSTOMER SUPPLIED