

WPS-2800 SERIES

High-Power Voice and Siren Systems

OMNI-DIRECTIONAL

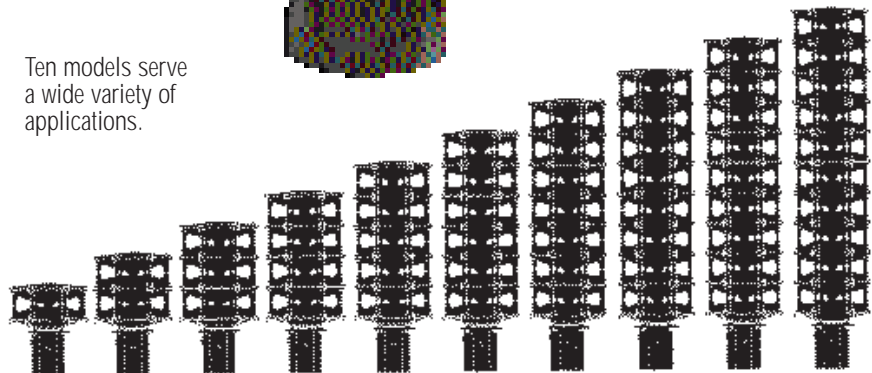
Whelen's Omni-Directional, WPS-2800 Series Systems deliver siren warning and voice broadcasting of unequalled clarity at uniform power levels (+/-1dB) throughout 360°.

SYSTEM FEATURES

- Ten models, 108dBc to 126dBc @ 100'.
- Six warning tones, standard.
- Public address - live or pre-recorded digital voice messages.
- Battery powered, up to 30 minutes of full power output.
- Local or remote control.
- System Diagnostics, SI TEST®.
- Remote station status monitoring, COMM/STAT™.
- Low profile speaker cell design yields high-power without excessive speaker height.
- One high efficiency 400 watt speaker driver used per speaker cell. Rugged 400 watt speaker driver tested to minimum twenty year life cycle.
- Environmental monitoring/status reporting.



Ten models serve a wide variety of applications.



WPS-2800 SERIES

REMOTE STATION

A WPS-2800 Series Remote Station consists of a speaker assembly, a pole-top mounting bracket and an electronics cabinet. Each system has local controls for activation of six siren warning tones and public address. Options include radio control, system diagnostics, digital voice (pre-recorded) and remote station status reporting.

UNIFORM COVERAGE

The WPS-2800 speaker cell's acoustic output is uniform +/-1dB throughout 360°. Both speaker and speaker driver are designed to operate in the voice range and to reproduce highly effective, low frequency warning tones.

UNIFORM COVERAGE +/- 1dB 360°

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ELECTRONICS CABINET

A two or three compartment, natural finish aluminum case is provided with the WPS-2800 Series Remote Station. The cabinet's upper compartment houses all system electronics; the lower compartment(s) houses the battery supply.

All electronics are installed on swing-out panels for easy access. Electronic modules may be tested while they are on-line and operating within the system. LED service indicators are provided at key points on modules for easy inspection of operational features.

The temperature compensated battery charger maintains the system's batteries in a standby, fully charged condition. The charger operates from 120 VAC fused at five amps. Solar power options are available.

In the event of AC power loss, the system's battery supply is designed to provide up to thirty minutes of siren and voice broadcasting or remain in a standby condition for up to two weeks with the capability of issuing one three minute siren/voice activation.



TYPE III SIREN CASE



TYPE II SIREN CASE

| MODELS | PERFORMANCE SPL @ 100'* | RANGE OF COVERAGE | EST. EST. |
|-------------|-------------------------|-------------------|-----------|
| WPS-2800-1 | 108 | | |
| WPS-2800-2 | 114 | | |
| WPS-2800-3 | 115 | | |
| WPS-2800-4 | 118 | | |
| WPS-2800-5 | 119 | | |
| WPS-2800-6 | 121 | | |
| WPS-2800-7 | 123 | | |
| WPS-2800-8 | 124 | | |
| WPS-2800-9 | 125 | | |
| WPS-2800-10 | 126 | | |

*All 100' performance levels listed represent repeatable results with +/- 2dB to stated levels under free field conditions when warning systems are maintained to factory specification and tested according to published guidelines.

Estimated 70dB and 60dB perimeters are based on the Federal Emergency Management Agency's -10dB per distance doubled path model, discussed in FEMA publication CPG 1-17, "Guide to Outdoor Warning Systems."

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High-Power Voice and Siren Systems

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ENGINEERING COMPANY, INC.

PUBLIC ADDRESS

Only Whelen provides public address that is effective at siren alerting ranges. Power is increased during public address broadcasts to compensate for the difference in power between voice and tone signals.



Whelen's Super-Power 400 watt speaker driver and a standard 100 watt speaker driver. The Whelen driver is used in the WPS-4000 and WPS-2800 Series High-Power Voice and Siren Systems.

RADIO CONTROL

Whelen offers both one-way radio controls, D-864 Series, and two-way radio control/status monitoring systems, COMM/STAT™, for the WPS-2800 Series.

REMOTE STATION DIGITAL VOICE

Up to sixteen pre-recorded, digital voice messages may be stored at the remote station using Whelen's Remote Station Digital Voice Module. Messages are factory set for optimum power and clarity. A brief radio command (less than one second) may be used to activate the 15, 30 or 60 second messages.

SI TEST®

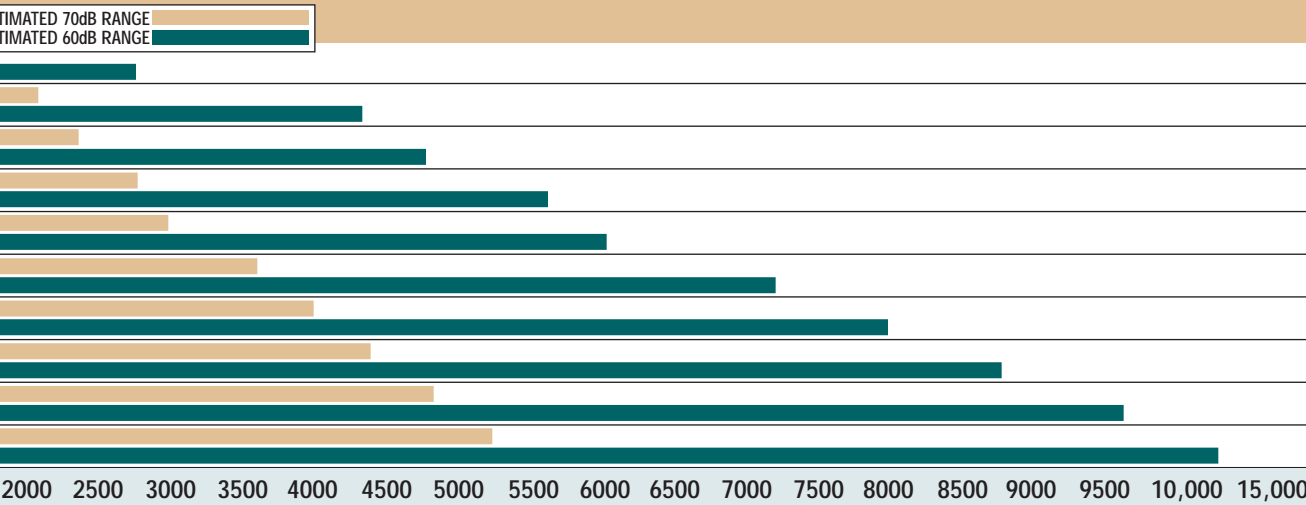
Only Whelen's Diagnostic silent test, SI TEST®, fully exercises the siren system without disturbing the public. Diagnostic SI TEST® results are indicated on an LED display located on the side of the siren case assembly. Information includes:

- AC Power On/Off.
- DC Power At Operational Levels.
- Partial Speaker Driver/Power Amplifier Operation.
- Full Speaker Driver/Power Amplifier Operation.

For systems equipped with Whelen's COMM/STAT™, radio controls/status reporting options, SI-TEST® information may be acquired by remote control.

SIX STANDARD WARNING TONES

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



WPS-2800 Series

High-Power Voice and Siren Systems

PRODUCT SUPPORT



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 design improvements without notification.
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At Whelen Engineering, we not only design and manufacture the best warning systems available, we stand behind every product we make. For a copy of our warranty, write to us at our main office in Chester, CT. If you're interested in the most reliable, most up-to-date warning systems - and the service that comes with them - give us a call. Find out why Whelen Engineering is the first name in public warning.

A product specification sheet with installation details is available for each WPS-2800 Series High-Power Voice and Siren System.



POLE TOP BRACKET
 The pole top bracket for the WPS-2800 is furnished in a natural finish, core-ten steel. The pole top bracket will accept a utility pole having a 10" top diameter.

SPECIFICATIONS

| MODEL | SPL @ 100' | SYSTEM WATTAGE | | HEIGHT Inches (CM) | WIDTH Inches (CM) | DEPTH Inches (CM) | SPEAKER ASSEMBLY WEIGHT lbs. (kg.) | ELECTRONIC CABINET WEIGHT lbs. (kg.) |
|---|------------|----------------|-------------|--------------------|-------------------|-------------------|------------------------------------|--------------------------------------|
| | | SIREN AUDIO | VOICE AUDIO | | | | | |
| WPS-2800-1 | 108dBc | 400 | 500 | 18.7 (47.5) | 32.50 (82.5) | - | 116 (52.6) | 233 (105.9) |
| WPS-2800-2 | 114dBc | 800 | 1000 | 31.12 (79) | 32.50 (82.5) | - | 162 (73.5) | 240 (109.1) |
| WPS-2800-3 | 115dBc | 1200 | 1500 | 43.54 (110.5) | 32.50 (82.5) | - | 208 (94.4) | 247 (112.3) |
| WPS-2800-4 | 118dBc | 1600 | 2000 | 55.96 (142) | 32.50 (82.5) | - | 254 (115) | 254 (115.4) |
| WPS-2800-5 | 119dBc | 2000 | 2500 | 68.38 (173.7) | 32.50 (82.5) | - | 300 (136) | 261 (118.6) |
| WPS-2800-6 | 121dBc | 2400 | 3000 | 80.80 (205) | 32.50 (82.5) | - | 370 (168) | 268 (121.8) |
| WPS-2800-A6 | 121dBc | 2400 | 3000 | 80.80 (205) | 32.50 (82.5) | - | 370 (168) | 424 (192.7) |
| WPS-2800-7 | 123dBc | 2800 | 3500 | 93.22 (237) | 32.50 (82.5) | - | 416 (188.7) | 431 (195.9) |
| WPS-2800-8 | 124dBc | 3200 | 4000 | 105.64 (268) | 32.50 (82.5) | - | 462 (209.5) | 438 (199.1) |
| WPS-2800-9 | 125dBc | 3600 | 4500 | 118.06 (300) | 32.50 (82.5) | - | 508 (230.4) | 445 (202.3) |
| WPS-2800-10 | 126dBc | 4000 | 5000 | 130.48 (331.4) | 32.50 (82.5) | - | 560 (254) | 452 (205.5) |
| Electronics Cabinet ¹ (WPS-2800-1 to 6) | - | - | - | 40.68 (103) | 30.00 (76) | 10.0 (25.4) | - | - |
| Electronics Cabinet ² (WPS-2800-A6 to 10) | - | - | - | 64.40 (164) | 30.00 (76) | 10.0 (25.4) | - | - |
| Pole Top Bracket | - | - | - | 30.0 (76) | 12.0 (30.5) | 10.0 (25.4) | 71 (32) | - |

EQUIPMENT IS CONFIGURED FOR 120 VAC INPUT POWER. OTHER INPUT VOLTAGES SUPPLIED UPON REQUEST.

¹ A 6.00" WIDE MOUNTING CHANNEL ADDS 6.00" IN HEIGHT AND 1.00" IN DEPTH.
² A 6.00" WIDE MOUNTING CHANNEL ADDS 6.00" IN HEIGHT AND 1.50" IN DEPTH.

