

All Hazard High-Power Siren System

The TWS290 Series is a highly reliable warning system with clear and intelligible voice capability that ensures excellent warning during any emergency.

SYSTEM FEATURES

- TWS 295 Five Omni-Directional Speaker Cells Assembled in a Vertical Column
- Aluminum Cabinet With Separate Battery Compartment
- 123dB(C) @ 100'
- TWS 295 Speaker Includes 5 pcs High Efficiency 400 Watt EZ-PULL™ Speaker Drivers
- 15 m Speaker Cable Included
- Battery Powered, Minimum of 30 Minutes of Full Power Output with Batteries of Our Recommendation
- 3 Stage Temperature Compensated 10 Amp Battery Charger
- Local Controls or Remote Controls
- 5 pcs High Efficiency Power Amplifiers
- Electronic Siren Controller
- Tone Generator
- Timer
- SI TEST®
- Low Battery Alarm
- IP 66 rating of electronic enclosure
- Lightning Arrestor
- Six Standard Public Warning Tones - Wail, Whoop, Attack, Hi-Lo, Alert, Airhorn

SYSTEM OPTIONS

- **GV-PGINT** - Giant Voice® Paging Interface to Interface Whelen Tones with Existing Paging Systems
- **TWSBATT** - TWS Approved Batteries
- Alternate Tone Set
- **TWS-SOLAR** - Solar Power#

Solar power option includes 2 x 100 watt panels, cables, mounting bracket and 24VDC solar regulator.

SIREN ACTIVATION CONTROLS

TWS equipment can be interfaced with many different types of two-way communications products and systems including 800Mhz trunking, Motorola's MOSCAD, FSK, Narrow-Band, TETRA, TDMA, FDMA, GSM, Fiber Optics and more. The following is available as standard options. Please contact for special applications.

ONE WAY CONTROLS

- **AUXIN** - Auxiliary Board for Contact Closure Activation

TWO WAY CONTROLS

- **AUXCS** - Two-Way Contact Closure Activation and Status Board
- **D2020LL** - 10 Digit DTMF Landline Activation
- **GV-LLM** - Giant Voice® Two-Way Landline Activation
- **GV-TETRA-RTU** - Tetra Module
- **GV-GSM-RTU** - GSM Module
- **TWS-RADIO-VHF** - 136-174 Mhz#
- **TWS-RADIO-UHF** - 330-360 Mhz / 403-470 Mhz#

Both VHF and UHF is available in analogue and digital versions

OTHER OPTIONS

- **VISUALERT** - Omni-directional Visual Lighting
- **TWS-ST-TM** - Top Mounted Strobe Light
- **INTRU** - Intrusion Alarm (available with two-way only)



Two Compartment
Electronics Cabinet



TWS 295

Component	Height cm (inches)	Width cm (inches)	Depth cm (inches)	Weight kg (lbs.)
TWS 295 Speaker	178,8 (70,4)	84,8 (33,4)		137,5 (303)
Electronics Cabinet	85,0 (33,5)	58,0 (22,8)	32,0 (12,6)	43,0 (94,9)*

*Less batteries. Two batteries: 12V, sealed, lead-calcium, add 24 kg pr. battery.
Less optional radio kit. Add 2,5 kg, if this option is selected.

Electrical

- Battery Charger Input: option of 120/240 VAC or 50/60 Hz
 - Battery Charger Output: 28VDC, 10A#
 - Batteries: 2 pcs 12V, AGM sealed (not included)
 - Standby Current: 80mA, 24VDC
 - Operating Current: 111A, 24VDC
 - Power Amplifier Output Power: 2000 watts during tone / 2500 watts during voice
- # U.L. Recognized Component

Environmental

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

Ordering Information

- TWS 295 - Speaker Assembly & Electronics Cabinet.
- OPTIONS:
- AUXIN - Auxiliary Board for Contact Closure Activation
- AUXCS - Auxiliary / Status Control Board for Contact Closure Activation and Status
- GV-GSM-RTU - GSM Module
- GV-TETRA-RTU - Tetra Module
- GV-LLM - Giant Voice® Two Way Landline Control / Status Monitoring
- TWS-RADIO - High standard radios in both analogue and digital versions with wide frequency range within both VHF and UHF
- VISUALERT - Omni-directional Visual Lighting
- TWS-ST-TM - Yop Mounted Strobe Light
- GV-PGINT - Giant Voice® Paging Interface to Interface Whelen Tones with Existing Paging Systems
- INTRU - Intrusion Alarm
- TWS-SOLAR - Solar Power*
- TWBSBATT - Two Pairs of Batteries

NOTES

10 digit DTMF Controls • Landline • VHF wireless link: 136-174 Mhz • UHF wireless link: 403-470 Mhz. Our VHF and UHF siren activation control packages include tone squelch, radio, radio interface, power supply, polyphaser, 0dB gain omni-directional antenna with bracket, and 15 m of RG213 antenna cable.

* Solar power option includes 2 x 100 watt panels, feed cables, mounting bracket and 24VDC regulator.

Acoustic Performance

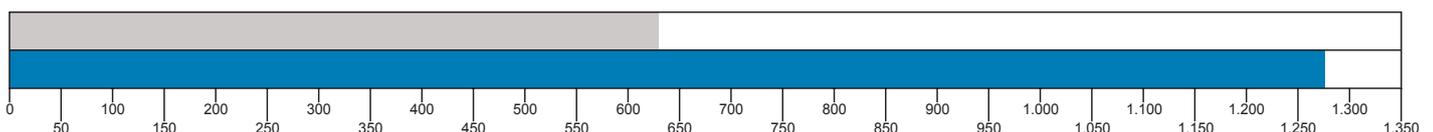
SPL @ 30 m: 123dB(C)

Estimated 80dB range: 640 m

Estimated 70dB range: 1.280 m

Note: 30 m performance levels listed represent repeatable results within +/-2dB to stated levels.

Estimated 80dB perimeter is based on the Federal Emergency Management Agency's (FEMA) -10dB per distance doubled path model.



WARNING SYSTEM SOLUTIONS

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