

TWS-290 SERIES

THREE THINGS YOU NEED TO KNOW IN ORDER TO SAVE LIVES...

1. ALERT

2. INFORM

3. DIRECT

HSS



ENGINEERING®
WARNING SYSTEM SOLUTIONS



TWS-290
SERIES

IT'S IMPORTANT THAT THE PRODUCT YOU CHOOSE SOUNDS RIGHT

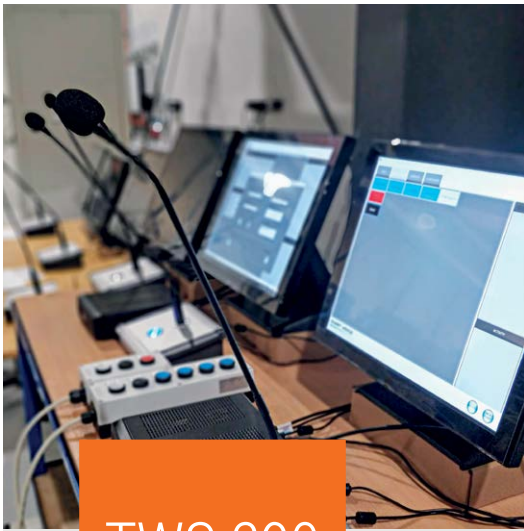
- Minimize cost of services and maintenance during a lifetime.
- Less power consumption (therefore less heat excess in the electronics)
- Working 24/7 / 365
(No need for thermal auto shutdown during vital emergencies)
- Lower weight and height give less wind load, smaller mast and lower installation costs
- Comes with the most powerful speaker drivers in the market

COMES WITH 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	wwwwwwwwwwwwwwwwwwww	410-490	1 sec / 1 sec
Air Horn	465-650	Modulated / 1.6 sec
Whoop	////	300-465	3

The superior design of the speaker cluster provides a true 360° high sound output throughout the entire frequency range.

Example



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WE WILL MAKE THE BEST WARNING SYSTEM SOLUTION FOR YOU

We offer a full range of **products and solutions**, all with the highest level of quality, durability and performance. Our reliable products can be used in a variety of applications - from a single alerting siren to a full alert notification system including integration of warning sirens, PA systems, sounders, detection systems and more, with a broad range of user-friendly control center software to ensure effective and efficient communication.

Effective emergency management begins with carefully planned early warning and notification systems. Our services follow every step of the procedure to ensure that the customers get the right solution in the highest quality.



THIS IS HOW WE DO IT!

1. WE ANALYZE YOUR NEEDS

We offer a consultancy and system design service whether it is a new design or scaling an existing, we consider all customers' requirements for the best solution.

2. WE PROVIDE THE BEST SOLUTION

We develop and provide the most reliable warning solution being able to customize the solution to meet our customers' requirements, we handle documentation ranging from simple manufacturing test sheets to construction drawings and wiring diagrams, Factory Acceptance Test (FAT) is conducted to determine and document that the system hardware and software operate according to the customers' specifications.

3. WE DO THE INSTALLATION AND COMMISSIONING

Our project managers, engineers and field engineers are all seasoned professionals familiar with local and international industry standards pertaining to emergency system installation.

4. WE TRANSFER OUR KNOWLEDGE

We provide training programs to maximize the benefit you receive from your warning system. We are passionate learning facilitators and target our training to the level of the participants.

5. WE OFFER SUPPORT 24-7

Our support and maintenance program can provide both reactive (emergency support) services and proactive (preventative maintenance) services. We currently run service programs ranging from on-call service for hardware repair to full-time deployed engineers in war zones. There is no service program that we cannot handle.



TWS-290 SERIES

WEIGHTS AND MEASURES

Model	SPL @ 100'	System Wattage Audio Tone	Voice Audio	Height cm (inches)	Width cm (inches)	Depth cm (inches)	Weight kg (lbs.)	Electronic Cabinet Weight kg (lbs.)
TWS-291	109dBc	400	500	51,8 (20,4)	84,8 (33,4)		48,6 (107)	29,8 (65,8)*
TWS-292	115dBc	800	1000	83,6 (32,9)	84,8 (33,4)		70,8 (156)	33,0 (72,8)*
TWS-293	119dBc	1200	1500	115,3 (45,4)	84,8 (33,4)		93 (205)	36,4 (80,1)*
TWS-294	121dBc	1600	2000	147,1 (57,9)	84,8 (33,4)		115,3 (254)	39,7 (87,6)*
TWS-295	123dBc	2000	2500	178,8 (70,4)	84,8 (33,4)		137,5 (303)	43,0 (94,9)*
TWS-296	125dBc	2400	3000	210,6 (82,9)	84,8 (33,4)		164,2 (362)	86,0 (189,8)*
TWS-297	126dBc	2800	3500	242,3 (95,4)	84,8 (33,4)		186,5 (411)	86,0 (189,8)*
TWS-298	127dBc	3200	4000	274,1 (107,9)	84,8 (33,4)		208,7(460)	86,0 (189,8)*
TWS-299	128dBc	3600	4500	305,8 (120,4)	84,8 (33,4)		230,9 (509)	86,0 (189,8)*
TWS-2910	129dBc	4000	5000	337,6 (132,9)	82,5 (32,5)		253,1 (558)	86,0 (189,8)*
Electronic Cabinet** (TWS-291-295)	-	-	-	84,5 (33,3)	58,0 (22,8)	35,0 (13,8)	-	-
Electronic Cabinet** (TWS-296-2910)	-	-	-	169,0 (66,6)	58,0 (22,8)	35,0 (13,8)	-	-

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

** Equipment is configured for 120 Vac input power, Other input Voltages supplied upon request.

TWS-290 SERIES HAS THE BEST PERFORMANCE IN THE MARKET!

WHY OUR CUSTOMERS CHOOSE US:

Performance

- Maximum acoustic performance
- Highest sound output compared to power consumption
- Robust and light weight
- TRUE 360° Omnidirectional sound propagation
- Proven MTBF of more than 30,000 hours
- Lowest maintenance and services requirements
- Modular design made of robust fiber-reinforced polycarbonate
- High efficiency 400 Watt EZ-PULL™ speaker drivers
- Intelligible pre-recorded or live voice messages in a wide area
- A single amplifier for each high efficiency speaker driver

Design

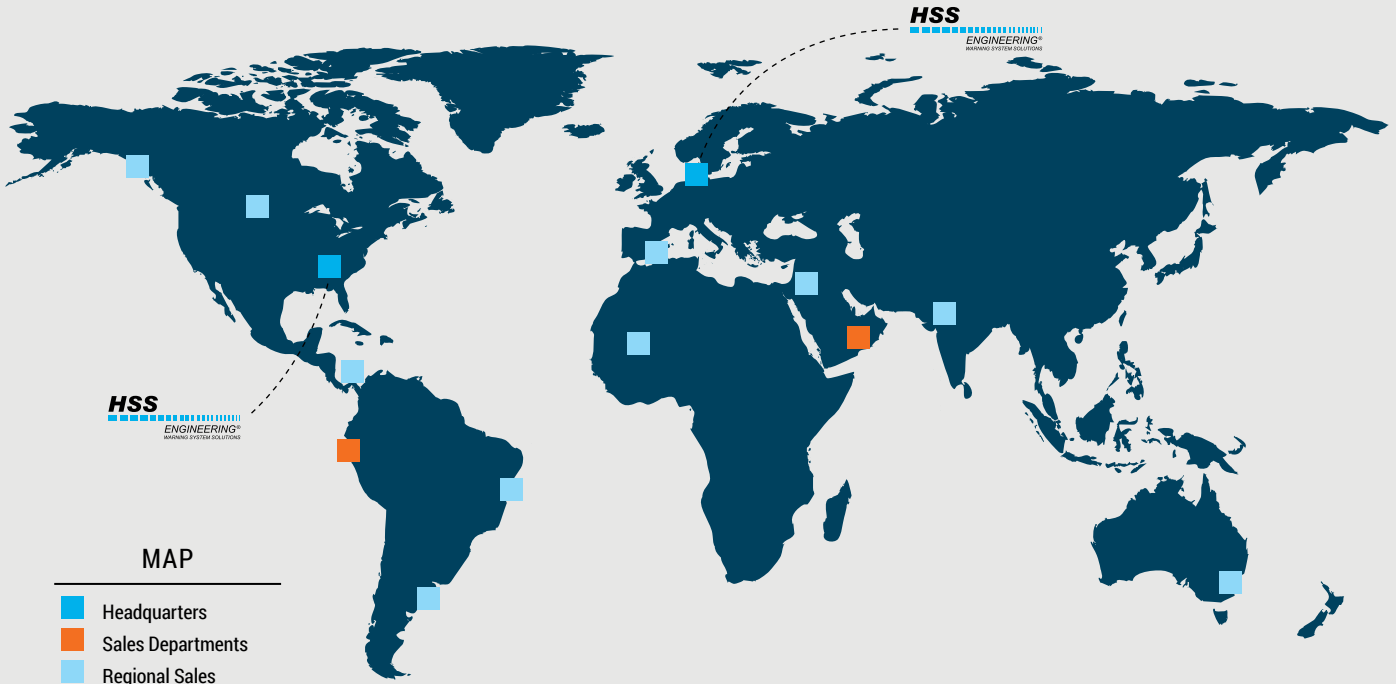
- Lower weight and height
- Less wind load
- Easy to install
- High quality IP66 Electronic Cabinet
- Lower installation costs
- Less drivers- less maintenance
- Easy to service

Power

- Operation with AC, DC or solar energy
- Less power consumption
- Less excess heat in the Electronic Cabinet
- Battery powered, minimum of 30 minutes of full power output
- No need for thermal auto shutdown during vital emergency alerts
- Separate ventilated battery compartment



TWS-290 Series has been chosen throughout the world, in different applications because of quality and efficiency in time of emergency alerts.



HOW CAN WE HELP YOU?

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**HSS
ENGINEERING®
IS AT YOUR
SERVICE, ANY
PLACE ON
EARTH**

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WARNING SYSTEM SOLUTIONS

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