

# HSS

**ENGINEERING®**  
WARNING SYSTEM SOLUTIONS



Two compartment electronics cabinet



*The TWS-290 siren series is the most reliable warning siren system on the market for both warning tones and voice communication*

## ALL HAZARD HIGH-POWER SIREN SYSTEM TWS-292

The combination of powerful high efficiency alarm tones and clear, intelligible voice broadcast ensures an excellent warning during any emergency. This enables the operator to notify and direct a warning to the affected population. The superior design of the TWS speaker cluster provides a true 360° sound output throughout the entire frequency range. The TWS-290 series, with its high-efficiency amplifiers and durable EZ-PULL™ speaker drivers, can provide continuous warning for a minimum of 30 minutes at full output power, solely from battery power. All electronics are built into a high-quality corrosion resistant aluminum cabinet.

### FEATURES

- 2 omnidirectional modular speaker cells assembled in a vertical column
- IP66 rated aluminum cabinet with separate battery compartment
- SPL 115 dB(C) @ 100' / 30 m
- TWS-292 speaker includes 2 pcs high efficiency EZ-PULL™ speaker drivers
- Amplifier and speaker driver superior quality
- 15 m speaker cable included
- Battery powered, minimum of 30 minutes of full power output with batteries of our recommendation
- Temperature compensated 3-stage switch mode battery charger
- Local or remote control / status
- 2 pcs high efficiency power amplifiers
- Electronic siren controller featuring SI TEST® - Silent self-test / diagnostics
- Alarm tone generator, automatic and live voice broadcast
- Full status monitoring including low battery alarm, amplifier / speaker status
- AC lightning arrestor included (antenna lightning arrestor included with TWS-RADIO option)
- Six standard warning tones – Wail, Whoop, Attack, Hi-Lo, Alert, Airhorn
- Optional customized warning tones
- Type of amplifiers Class D
- Made of non corrosive carbon fiber reinforced polymer. Non metallic material
- STI intelligibility index 0,99. Clear voice capability with high quality frequency response

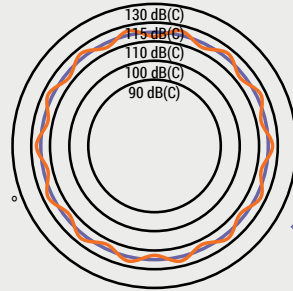


## ACOUSTIC PERFORMANCE

<b>SPL @ 1 m:</b>	145 dB(C)
<b>SPL @ 30 m:</b>	115 dB(C)
<b>70dB range ISO 13475-1*:</b>	5,860 m
<b>70dB range FEMA standard**:</b>	731 m

\* ISO: 6 dB sound pressure reduction pr. doubling of distance (as per ISO 13475-1)

\*\* FEMA: 10 dB sound pressure reduction pr. doubling of distance (as per FEMA guidelines)



## ENVIRONMENTAL

<b>Operating temperature</b>	-35° C to + 70° C
<b>Storage temperature</b>	-65° C to + 125° C
<b>Humidity, non-condensing</b>	0 to 95 %

The superior design of the speaker cluster provides a true 360° high sound output throughout the entire frequency range. SPL +/-1 dB decrease in 360°

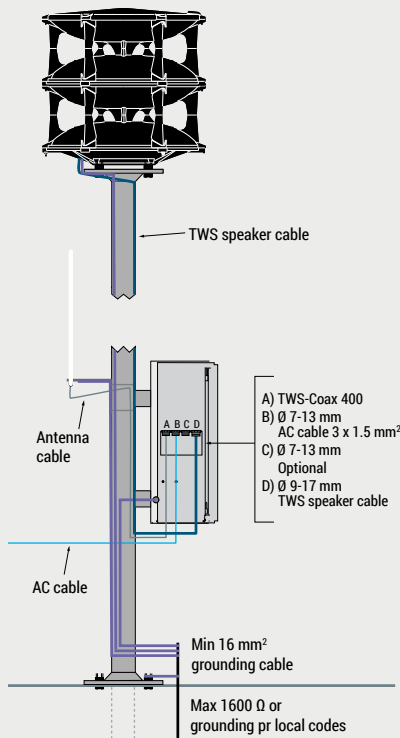
## ELECTRICAL

<b>Battery charger input</b>	Option of 120/240 VAC or 50/60 Hz
<b>Battery charger output</b>	28 VDC, 10A*
<b>Batteries</b>	2 pcs 12 V, AGM sealed. 100 AH. Sold separately
<b>Standby current</b>	82 mA, 24 VDC
<b>Operating current</b>	23 A, 24 VDC6
<b>Output power per driver</b>	(typical / max) 400 Watts / 600 Watts
<b>Total output power</b>	(typical / max) 800 Watts / 1200 Watts

# U.L. recognized component

Component	Height cm (inches)	Width cm (inches)	Depth cm (inches)	Weight kg (lbs.)
<b>TWS-292 speaker</b>	83.6 (32.9)	84.8 (33.4)		70.8 (156)
<b>Electronics cabinet</b>	84.5 (33.3)	58.0 (22.8)	35.0 (13.8)	33.0 (72.8)*

\* 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.



## ORDERING INFORMATION

Product Description	Order No.
Speaker assembly and electronics cabinet	TWS-292
<b>Options</b>	
Auxiliary activation / status control board for contact closure activation and status	AUXCS
Auxiliary activation board for contact closure	AUXIN
High efficient AC direct power supply unit	TWS-AC-PSU
GSM module	GV-GSM-RTU
Ethernet control / status interface	GV-IP
Giant Voice® Two way landline control / status monitoring	GV-LLM
High standard radios in both analogue and digital versions with wide frequency range within both VHF and UHF	TWS-RADIO
Omni-directional visual lighting	TWS-VISUALERT
Top mounted strobe light	TWS-TL31R
Giant Voice® Paging interface to interface TWS warning with existing paging systems	GV-PGINT
Intrusion alarm	TWS-INTRU
Solar power	TWS-SBC200
Two pairs of batteries	TWSBATT
Sun shield for electronic cabinet	TWS SUN SHIELD
Customized warning tones	GV-TONES

REV. I

# HSS



**ENGINEERING®**  
WARNING SYSTEM SOLUTIONS

HSS Engineering A/S  
Laegaardsvej 12 · 8520 Lystrup · Denmark  
Phone + 45 7022 8844  
www.hss.dk · info@hss.dk