zenitel

DATASHEET



4000019416

P-8301 MkII Microphone Unit

Microphone/Antenna Unit

- Best performance digital sound processing
- Easy installation
- Amplifies meaningful sound within a 70-2100 Hz range
- Omnidirectional antenna with 4 microphones
- 3-meter pigtail
- Approved according to:
  - *MED*
  - *UK MER*
  - *ISO 14859*
  - *IEC 60945: 2002*
  - *Parts of E10 (EMC and Operational Temperature)*
  - *IEC 61162-1:2016 / -450:2018*
  - *IEC 62288: 2021*
- *Type Approvals:*
  - *DNV*
  - *DNV - MED*
  - *DNV UK - MER*
  - *ABS*
  - *CSS*

MED Certification MER Certification

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Description

The P-8301 MkII Microphone unit is part of the Phontech 8300 MkII Sound Reception system, designed to receive and detect foghorn sounds from other vessels. The P-8300 MkII Sound Reception system is for use on-board one man operated closed bridge class ships.

By using high capacity microcontrollers and sophisticated software algorithms this digital system has superior performance, both for noise suppression and direction detection. Through the self-calibrating functionality, it is also is very easy to install.

The P-8301 MkII is an omnidirectional antenna with 4 microphones that continously monitors the surroundings for foghorn, bells and gongs in the range between 70-2100Hz.

This P-8300 MkII Sound Reception System is MED-approved and is wheel marked according to MED-B according to(EU) 2022/1157.
It is also UK-MER-D / UK-MER-B approved according to UK) MSN.1874.

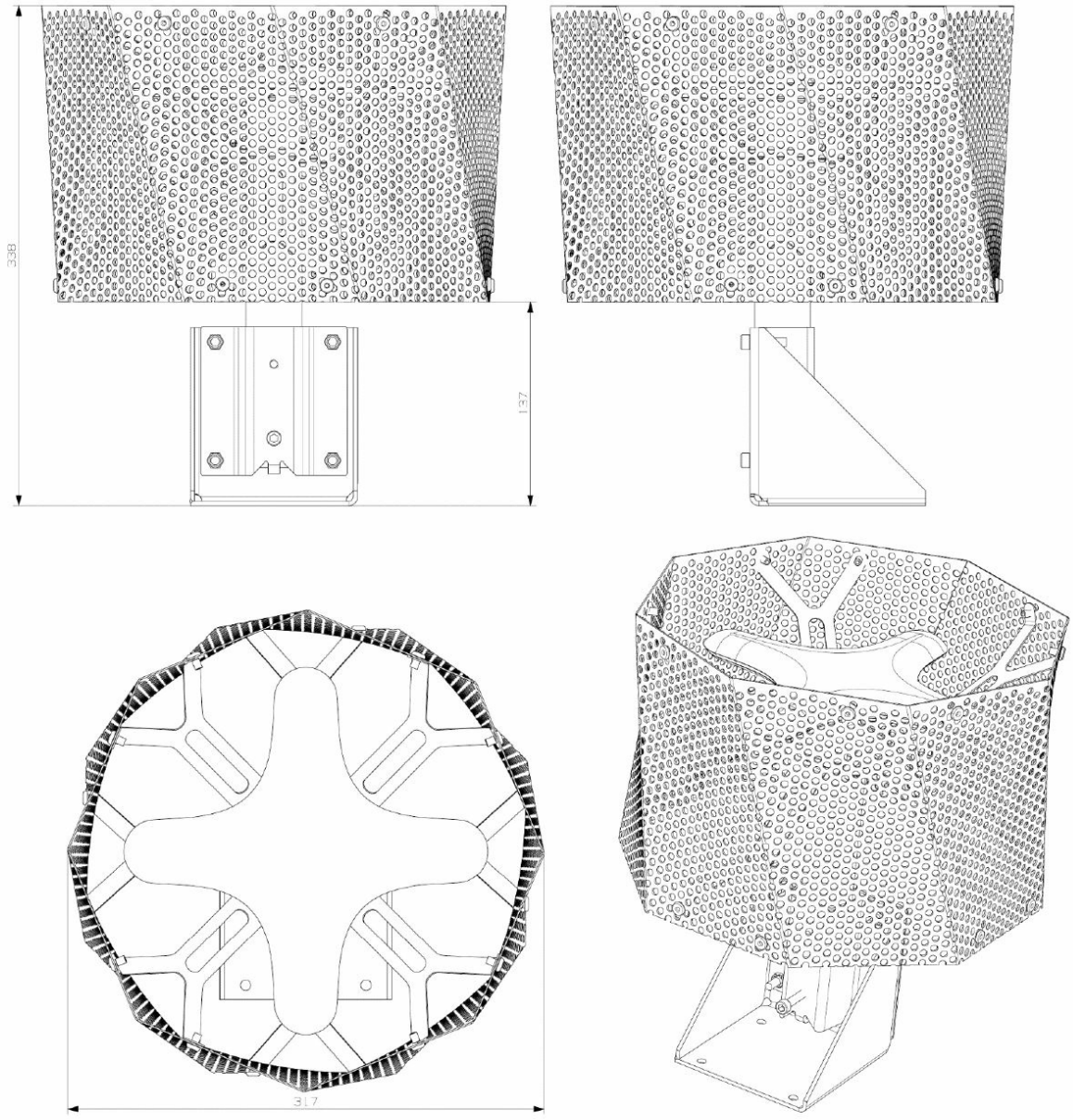
The unit has DNV/ABS/RMRS/CCS type approvals.

The P-8300 MkII Sound Reception System is also designed to meet;
SOLAS Chapter V - Safety of navigation - Regulation 19*Carriage requirements for shipborne navigational systems and equipment.*
IMO Res. A.694(17) *General requirements for shipborne radio equipment forming part of the Global Maritime Distress and Safety System (GMDSS) and for electronic navigational aids.*
IMO Res. MSC.36(63) *Adoption of the international code of safety for high speed craft (1994).*
IMO Res. MSC.86(70) *Adoption of new and amended performance standards for navigational equipment.*
IMO Res. MSC.97(73) *Adoption of the international code of safety for high speed craft (2000).*
IMO Res. MSC.191(79) *Performance standards for the presentation of navigation-related information on the shipborne navigational displays*

Technical Dimensions

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Specifications

MECHANICAL	
Dimensions (WxHxD)	317x338x317 mm
Weight	3.95 kg
Material	Stainless steel (AISI 316) / ASA Thermoplastic
Color	RAL 9010
Mounting	Vertical / Horizontal
Fixing	4 x M6 bolts, 80mm square
Access	Sealed, flying leads
Cable Type	Unitronic Robust C (TP) 6 x 2x 0.25 (Ø 8.5mm)
Manufacturer	Phontech by Zenitel

ENVIRONMENTAL	
Temperature	-60°C to +55°C (Storage: -60°C to +70°C)
Humidity	+93% (at +40°C)
Ingress Protection	IP-56

ELECTRICAL	
Power Supply	Supplied from Phontech 8300 MkII
Power Consumption	<1 W
Heat Dissipation	<1 W
Termination	5 twisted pairs, outer shield– flying leads
Compass Safe Distance	> 0.3 m
Frequency Range	70 Hz – 2100 Hz
Microphone Input Level	Max 125 dB SPL

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Accessories



Junction Box for P-8301 Microphone

Item Number: 4000019634

Used With



P-8300 MkII Sound Reception Display Unit

Sound Reception main display unit

Item Number: 4000019415

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