

Chapter 7 Specifications

7.1 NDH-338 Fixed Protective Capsule Unit

Performance

- | | |
|------------------------------------|---|
| a) Interface | |
| 1) Standard | IEEE802.3 (10Base-T/ 100Base-TX) |
| 2) Protocol | TCP/IP |
| b) Recording duration and capacity | |
| 1) Duration | 48 hours |
| 2) Capacity | 32GB |
| c) Data recording interval | |
| 1) Sensor data | depends on the input from the sensors (usually 1 second) |
| 2) Audio data | continuous (1 audio file / minute) |
| 3) Image data | 15 seconds per each image
(X-Band Radar, S-Band Radar, Main-ECDIS and Sub-ECDIS) |
| d) Acoustic underwater beacon | |
| 1) Operating frequency | 37.5kHz \pm 1kHz |
| 2) Operating time | min. 90 days after being immersed in the water |
| 3) Detectable range | 1,800m to 3,600m
(depending on surrounding environment, e.g. sea state, nearby boats, marine animals and other factor) |
| 4) Battery life expectancy | 3-years after manufacturing.
Please note that lifetime may be shorter depending on environmental condition. |
| 5) Battery specifications | Lithium battery (Li-SOCl ₂)
DC +3.6V 8.5Ah |
| e) Compass safety distance | |
| 1) Standard | 0.45m |
| 2) Steering | 0.45m |

Environmental condition

The recording data in the final recording medium shall be held without loss under below the condition.

a) Shock	A half sine-wave pulse of 50 G, with a duration of 11msec
b) Penetration	A mass of 250 kg with a pin of 100mm diameter, dropped from 3m
c) Fire	10 hours with 260°C fire 1 hour with 1100°C fire
d) Deep-sea pressure and immersion	Immersion in sea water at pressure of 60 MPa (equivalent to a depth of 6000m)

Environmental condition

a) Operating temperature	-25 °C to +55 °C (IEC 60945 exposed type)
b) Storage temperature	-55 °C to +70 °C (IEC 60945 exposed type)
c) Vibration	2Hz to 13.2Hz ±1.0mm 13.2Hz to 100Hz 0.7G

General specification

a) Input voltage range	DC +19.5 to +36.5V
b) Power consumption	5W
c) Size	185(w) x 252(d) x 275(h) mm
d) Mass	6.8kg
e) Color	ORANGE

7.2 NDH-339 Float Free Capsule Unit

Performance

- | | |
|------------------------------------|---|
| a) Interface | |
| 1) Standard | IEEE802.3 (10Base-T/ 100Base-TX) |
| 2) Protocol | TCP/IP |
| b) Recording duration and capacity | |
| 1) Duration | 48 hours |
| 2) Capacity | 64GB |
| c) Data Recording Interval | |
| 1) Sensor data | depends on the input from the sensors (usually 1 second) |
| 2) Audio data | continuous (1 audio file / minute) |
| 3) Image data | 15 seconds per each image
(X-Band Radar, S-Band Radar, Main-ECDIS and Sub-ECDIS) |
| d) Locator Light | Flashing LED |
| e) Transmitter operation | |
| 1) Operating time | 168 hours |
| 2) Battery life expectancy | 4-years or 5-years after mounting
(follow the Classification Society) |
| 3) Battery specifications | Lithium battery
DC +7.2V 18Ah |
| f) 406MHz Transmitter | |
| 1) Frequency | 406.037MHz |
| 2) Output power | 5W ± 2dB |
| g) 121.5MHz Transmitter | |
| 1) Frequency | 121.5MHz |
| 2) Output power | Under 100mW |
| h) Hydrostatic Release Mechanism | |
| 1) Operating depth | 2 to 4m |
| 2) Life expectancy | 2-years after mounting. |
| i) Compass safety distance | |
| 1) Standard | 0.8m |
| 2) Steering | 0.8m |

Environmental condition

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|--------------------------|---|
| a) Degree of protection | 10m depth at 5minutes |
| b) Operating temperature | -20 °C to +55 °C (IEC61097-2 satellite EPIRB) |
| c) Storage temperature | -30 °C to +70 °C (IEC61097-2 satellite EPIRB) |

General specification

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|------------------------|---|
| a) Input voltage range | Power Over Ethernet (IEEE802.3af) |
| b) Power consumption | 15W |
| c) Size | 235.8(w) x 214.2(d) x 528.5(h) mm |
| d) Mass | 5.2kg (including the EPIRB, bracket and cable). |
| e) Color | ORANGE. |