USER MANUAL

406 MHz EPIRB (COSPAS-SARSAT)

NSR NEB-1000/NEB-2000C

SAFETY NOTICES

- ☑ Use this EPIRB only during situations of GRAVE and IMMINENT danger.
- ☑ Read this manual carefully before installation and use.
- ☑ To prevent FALSE ALERT, it is recommended that the user should be aware of and understand basic use of this EPIRB. If any false alert occurs, SAR operations will be initiated, which may result in penalty.
- ☑ Before you use this product, you need to register it with the appropriate national authority.
- ☑ Lithium batteries are used in this product, which is not allowed to modify, short or burn.
- ☑ This Product emits radio signal which is not harmful to human body. However, it is recommended not to touch the antenna of the EPIRB when it is activating.
- ☑ If the EPIRB is activated in a situation except an imminent danger, prompt action needs to be taken to deactivate it and inform Local SAR Service to cancel the false alert.

Modify Record

No.	Modify by	Date	Paragraph	Version	Reason
1	Q/A	2015/12/18	1	02	Description modified.
2	Q/A	2017/9/21	1-4	03	Photos replaced.
3	Q/A	2018/5/11	3.2 & 4.1	04	Generally modified.
4	Q/A	2018/10/26	1.4	05	Specification modified
5	Q/A	2019/03/28		06	Generally modified.

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1. DESCRIPTION

1.1 PRODUCT OVERVIEW

NSR NEB-1000/NEB-2000C (406MHz Satellite EPIRB) is used to transmit distress signals. This is designed to comply with IMO SOLAS requirements (GMDSS) and Cospas-Sarsat technical standard (T.001). This is a powerful self-contained distress transmitter.

NSR NEB-1000/NEB-2000C with a built-in GPS receiver transmits distress signal including a position with accuracy of less than 10 meters. In distress, the signal is transferred to Rescue Coordination Center (RCC) without delay through Local User Terminal (LUT) so that Search and Rescue can be initiated immediately.

When vessel sinks, Hydrostatic Release Unit (NHR-100) releases the container cover automatically to eject the EPIRB to float to the surface of water. The EPIRB can also be manually operated while on board or in a life raft. The EPIRB transmits on 406MHz frequency with homing signal on 121MHz.

1.2 COSPAS-SARSAT SYSTEM OVERVIEW

Operational use of Cospas-Sarsat by SAR agencies started with the crash of a light aircraft in Canada, in which three people were rescued (September 10, 1982). Since then, the System has been used for thousands of SAR events and has been instrumental in the rescue of over 33,000 lives worldwide.

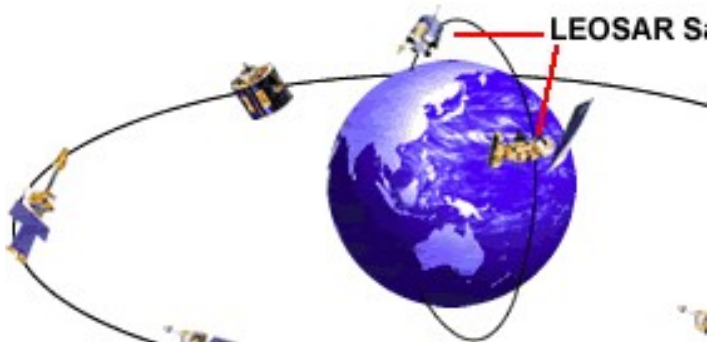
The basic Cospas-Sarsat concept is illustrated in the above figure. The System is composed of:

- distress radiobeacons (ELTs for aviation use, EPIRBs for maritime use, and PLBs for personal use) which transmit signals during distress situations;
- instruments on board satellites in geostationary and low-altitude Earth orbits which detect the signals transmitted by distress radiobeacons;
- ground receiving stations, referred to as Local Users Terminals (LUTs), which receive and process the satellite downlink signal to generate distress alerts; and

- Mission Control Centers (MCCs) which receive alerts produced by LUTs and forward them to Rescue Coordination Centers (RCCs), Search and Rescue Points Of Contacts (SPOCs) or other MCCs.

The Cospas-Sarsat System includes two types of satellites:

- satellites in low-altitude Earth orbit (LEO) which form the LEOSAR System
- satellites in geostationary Earth orbit (GEO) which form the GEOSAR System



Cospas-Sarsat has demonstrated that the GEOSAR and LEOSAR system capabilities are complementary. For example the GEOSAR system can provide almost immediate alerting in the footprint of the GEOSAR satellite, whereas the LEOSAR system:

- provides coverage of the polar regions (which are beyond the coverage of geostationary satellites);
- can calculate the location of distress events using Doppler processing techniques;
- is less susceptible to obstructions which may block a beacon signal in a given direction because the satellite is continuously moving with respect to the beacon.

LEOSAR	GEOSAR
● Beacon identification information and location information provided ● Global coverage, but not instantaneous	● Beacon identification provided, and location information available if encoded in beacon message (location protocol beacon) ● Near instantaneous alerting in the GEOSAR coverage area

1.3 FEATURES AND COMPONENTS

FEATURES

- Built in GPS receiver
- Highly efficient battery
- Professional design, engineered, tested and built for years of abusive marine use
- Easily coding/reading user data with infrared communication technology
- GMDSS compliant
- Global distress alerting
- Fully enclosed housing

COMPONENTS

Basically NSR NEB-1000/NEB-2000C is composed of container and beacon. The main components are described as below:

a) **Antenna**: The antenna is a flexible stick that is used to transmit signal. When operating, it must be stick-up vertically.

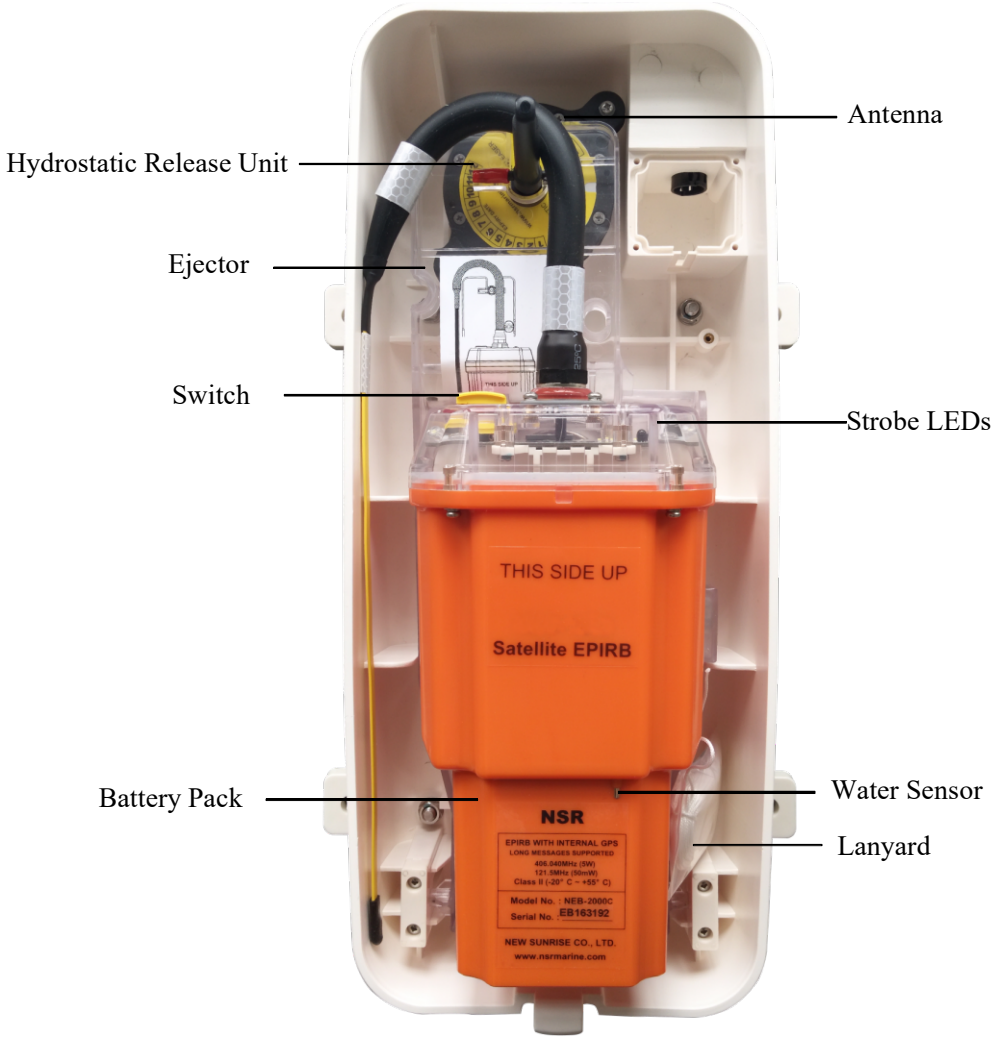
b) **Ejector**: The ejector is to push the beacon out of the container when NSR NEB-1000/NEB-2000C is released at 4m under water.

c) **Strobe LEDs**: They are strong strobe LEDs. When the beacon is activated, the bright LEDs will flash every 3 seconds which is visible through the clear lens dome.

d) **Switch**: The slide switch is hided under the yellow cover. When off, the switch is left in the middle place as READY position. Press TEST button to test the beacon. Slide to ON position to manually activate the beacon.

e) **Water Sensor**: Two bare copper contacts form into the water sensor. In water, the contracts will be conducted to automatically activate the beacon.

NOTE:
The WATER SENSOR only operates when the beacon has escaped from the container. In the container, the beacon will never be activated even in water, as the deactivation magnet in the ejector will prevent the beacon from being activated.



f) **Lanyard**: The 7-meter durable lanyard is used to tie the beacon when in raft or in sea.

g) **Hydrostatic Release Unit (NHR-100)**: NHR-100 is used to close the bottom part and upper part (cover) of the container.

- When the EPIRB is immersed 4 meters under water, the NHR-100 pole will be automatically pulled out. Then the upper cover of the container is open and the beacon will be ejected to float to the surface of water.
- The lock pin can also be pulled out manually and the beacon can be taken out. In this case, the beacon can be manually activated.

h) **Battery Pack**: The battery pack is included in the bottom case of the beacon.

i) **Deactivation Magnet**: The magnet in the ejector will prevent the beacon from being activated, no matter whether the beacon is in water or not.

Summary of BEACON Control Functions

Control position		EPIRB condition		EPIRB-mount or release mechanism status		Transmitter status	
ON	READY	WET*	DRY	OUT	IN	ON	OFF
√		√		√		√	
√		√			√		√
√			√	√		√	
√			√		√		√
	√	√		√		√	
	√	√			√		√
	√		√	√			√
	√		√		√		√
* Floating or immersed in water.							

1.4 SPECIFICATIONS

General	Model	NSR NEB-1000/NEB-2000C
	Material	ABS Plastic
	Beacon Color	High visibility orange
	IP Grade	IP67
	Buoyant	Yes
	Deployment	Automatic hydrostatic release, Manual switch control
	Accessories	Hydrostatic Release Unit / Lanyard
	Controls	Manual activation / Self-Test switches
Beacon size	Weight	1.8 kg
	Height	240 mm
	Width	116 mm
	Antenna Length	452 mm
406MHz Transmitter	Operating Frequency	406.040MHz
	Power Output	5W±2dB
121.5MHz Homer	Operating Frequency	121.5MHz
	Power Output	50mW ± 3dB PERP
GPS Receiver	Type	u-Blox
	Center Frequency	L1-1575.42MHz
Battery	Part No.	NBT300/NBT400
	Type	Lithium primary battery ($Li/SOCl_2$)
	Total Voltage Rating	14.4 V (4 x 3.6V)
	Storage	5 years on board (see Note 1)
	Operating Life	More than 48hrs (-20℃)
Strobe light	Type	LED
	Color	White
	Flash Rate	20/min
Environment	Operating Temperature	-20℃ to +55℃
	Storage Temperature	-30℃ to +70℃
	Automatic Release	4 meters max (13 feet)

*Note1: It is recommended that the battery can be stored at the dealer/agent max 1 year since purchased and it should be replaced in 5 years after supplied to a vessel.

2. INSTALLATION

Before installing the EPIRB, find a suitable mounting position on the vessel. It should be mounted upright against a vertical bulkhead. It is critical that you choose a position where the released beacon will not get trapped by overhangs, even in case that the vessel sinks.

Mount the EPIRB by the below rules:
- Consider easy access in an emergency.
- Mount on the outside of the vessel's structure.
- Mount close to the vessel's navigation position.

Avoid the below position when the EPIRB mounted:
- Position with insufficient space for ejection and maintenance.
- Position within 1 meter of any compass equipment.
- Position within 2 meters of any Radar antenna.
- Direct impact from waves.
- Exhaust fumes, chemical and oil sources.

2.1 MOUNTING

The container can be installed horizontally or vertically.

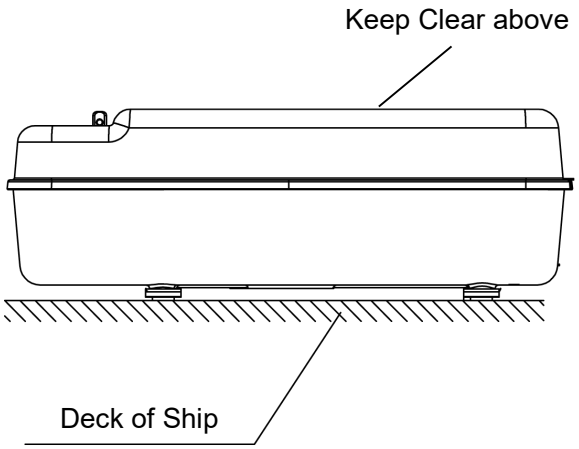


Fig. 1 Horizontal installation

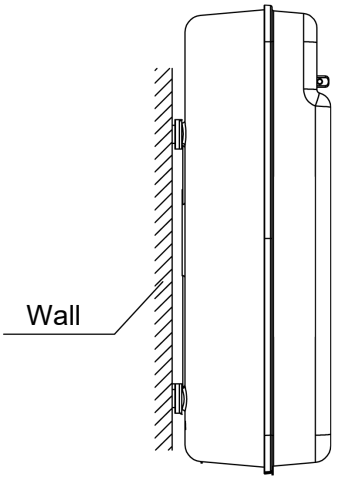
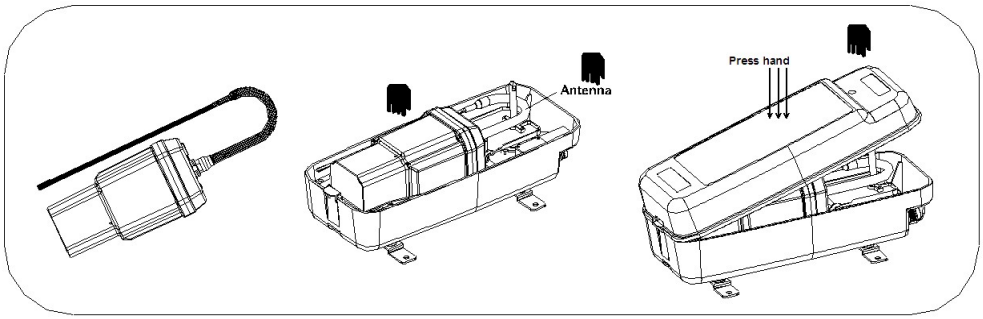


Fig. 2 Vertical installation

2.2 PLACING

Follow below steps to place the beacon into the container.
Step 1. Bend the antenna along the pole of NHR-100.
Step 2. Sit the beacon into the container.
Step 3. "THIS SIDE UP" should be upside.
Step 4. Press down the upper cover.
Step 5. Fix the lock pin into the hole of NHR-100 pole.



CAUTION:

When the beacon is placed into the container, make sure right direction.
The face printed with THIS SIDE UP should be upside, while the beacon sta ys in the container. Otherwise a false alert may easily occur.

3. OPERATION

3.1 ACTIVATION

The beacon can be activated by two processes: automatic activation and manual activation. When activated, the beacon will behave in blow steps.

Step 1. All LED flickers once one by one.
Step 2. Strobe light flickers every 3 seconds.
Step 3. **GPS** LED flickers while acquiring GPS data.
Step 4. **TX406** LED flickers while transmitting on 406MHz.
Step 5. **TX121** LED flickers while transmitting on 121MHz.

NOTE:

Once the beacon is activated, strobe light will be flashing immediately by every 3 seconds, however it won't transmit a distress alert in approximately 2 minutes. This gives you time to turn it off immediately in case of being activated by mistake.

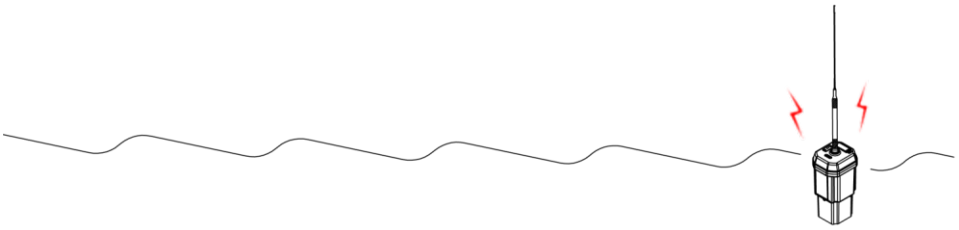
When the beacon is activated, the below guidance is helpful.

☑ The beacon should be kept upright. If possible, it would be better to be held.
☑ The beacon should be placed in the open place to sky.
☑ There should be no overhangs above the beacon.
☑ Do not place the beacon close to any large structures.
☑ Do not lay down the beacon.
☑ In a life raft, hold the beacon up as high as possible.
☑ Let the beacon to float in the sea when necessary.
☑ Do not touch the antenna with hand.

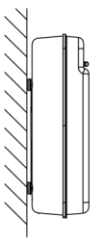
AUTOMATIC ACTIVATION

NSR NEB-1000/NEB-2000C is designed with float-free activation. It contains a spring-loaded ejector which automatically pushes the container cover off and releases the beacon, if a vessel sinks. This automatic ejection is controlled by Hydrostatic Release Unit (NHR-100). The plastic pole is pulled out before the container reaches 4 meters depth. After the container cover is open, the beacon is ejected to float on the surface of water and is switched on automatically by water sensor.

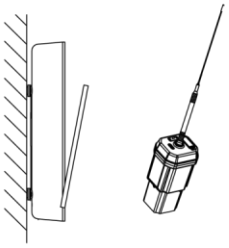
1) When the vessel sinks, the container is filled with seawater. The NHR-100 will operate when the container sinks under 4 meters depth from the surface of water. The plastic pole of NHR-100 is pulled out while the internal coil spring is pressed by water pressure.
2) The ejector pushes the beacon out from the container.
3) As the beacon floats away from the magnet, its sea sensor activates automatically.
4) Floating on the surface of water, the beacon transmits distress signals.



EPIRB activates



When it is sunk,
NHR cuts its pole.



Container lids is ejected

MANUAL ACTIVATION

If there is enough time when in distress, the beacon can be taken out from the container and brought to life raft. In such case, the beacon can be manually activated.

Please follow the instruction as below.

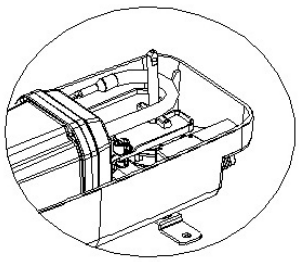
1) Open the switch cover. The protector tab will be broken.
2) Slide the switch fully to left side at **ON** position.
3) The beacon is activated and transmits distress signals.
4) Hold or put the beacon on the surface as upright as possible, and it must have a clear view of the sky for proper operation.

NOTE:

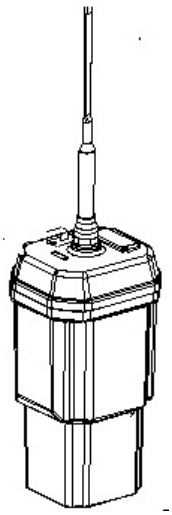
1. Do not break the protector tab unless in distress, do not open the switch cover;

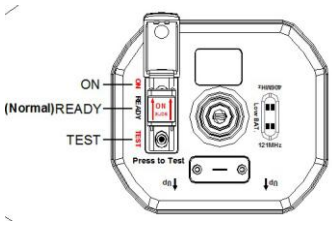
2. If the beacon stays near a metal wall or is held by the antenna with hand, the transmission will be affected.

① **In the container.**

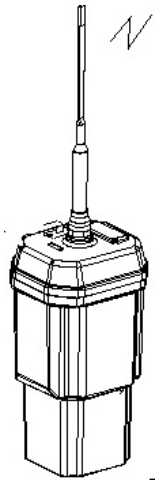


② **Take out of the container.**





③ **Open Cover and Slide to ON.**



④ **Activated and Keep Upright.**

3.2 TEST MODE

1) Take the beacon out of the container.
2) Through the hole on the switch cover, use a screw driver or a pen to press the **TEST** button for 3 seconds and release the button.
3) The test operation begins and will last for about 30 seconds.
4) **Status** LED indicate the result of self-test.
5) When Self-Test ends, the beacon will be powered off automatically.

This action is for Self-Test for both user and inspector. See the section 4.1 Self-Test & Inspection for more details.

NOTE:
During test, do not break the protector tab and do not open the switch cover.

3.3 DEACTIVATION

If the beacon has been activated for a cumulative period more than 2 hours, the battery pack needs replacing. Make sure that the beacon can continuously operate for at least 48 hours in emergency. See section 4.3 for battery replacement instructions.

If the beacon has been activated by mistake or the emergency ends, the beacon must be switched off by sliding the switch back to READY position.

If the beacon has been automatically activated in water, deactivate the beacon by taking it out of water and dry for about 10 seconds.

4. MAINTAINANCE

4.1 SELF TEST & INSPECTION

As an important part of GMDSS, EPIRB should be checked regularly. NSR NEB-1000/NEB-2000C has a built-in test capability which can check the situation of the battery, strobe light, and both 406MHz and 121.5MHz distress transmitters.
Checklists are provided at the back of this book, and you should check the EPIRB regularly using the forms.
Below list the check intervals.

Every 2 months	Conducting Self-Test
Every year	Annual inspection by authorized radio companies
Every 2years	HRU replacement
Every 5 years	Battery pack replacement

SELF TEST

It is recommended that the Self-Test should be taken every two months.
To perform Self-Test, through the hole on the switch cover, use a tool to press and hold the TEST button for 3s, and then release the button. During Self-Test, the transmitting messages won't be regarded as distress alert even received by satellite.

Check the LED status as below:

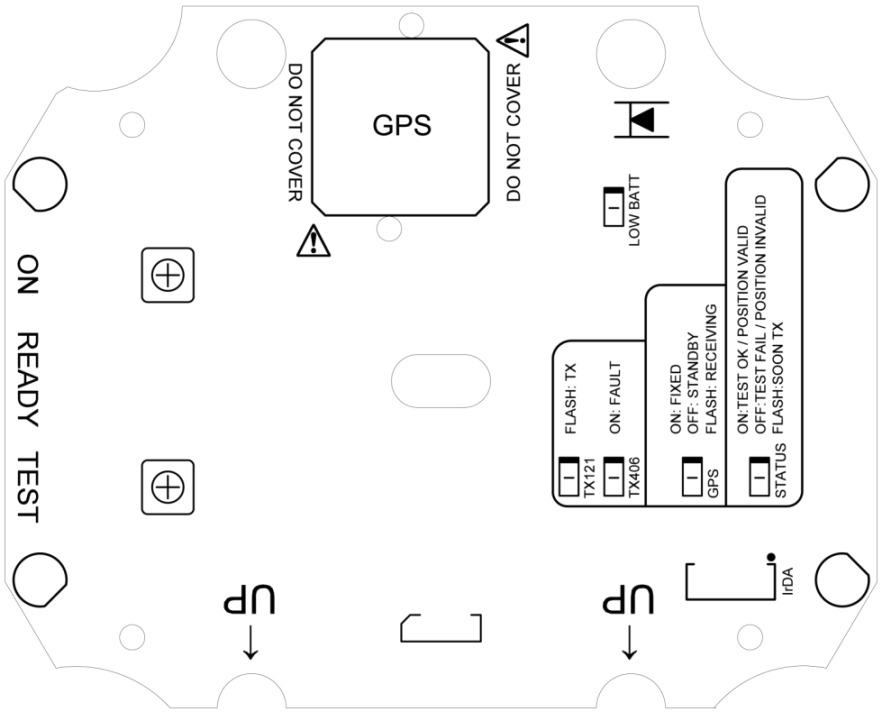
Step 1. All LED flickers once one by one.
Step 2. Strobe light flickers every 3 seconds during self-test.
Step 3. Sending a 406MHz test message to check the power and frequency.
- If passed, **TX406** LED ON shortly.
- If failed, **TX406** LED keep ON.

Step 4. Sending a 121 MHz test homing signal to check the power and Frequency.
- If passed, **TX121** LED ON shortly.
- If failed, **TX121** LED keep ON.

Step 5. Finish the self-test.

SELF-TEST lasts for 30 seconds. The last 15 seconds is to indicate the test result.
- If passed, **Status** LED keep ON.
- If failed, **LOW BAT** LED or **TX121** LED or **TX406** LED keep on.

After 30 seconds, SELF-TEST ends and the beacon is powered off automatically.



Summary of LED status in Self-test

BEACON STATE	LOW BATT	TX121	TX406	GPS	STATUS	Strobe Light
Self-Test OK	OFF	OFF	OFF	OFF	ON	Flash every 3s
Normal	OFF	TX: Flash	TX: Flash	OFF	OFF	Flash every 3s
406MHz failed	OFF	OFF	ON	OFF	OFF	Flash every 3s
121.5MHz failed	OFF	ON	OFF	OFF	OFF	Flash every 3s
Battery low voltage	ON	OFF	OFF	OFF	OFF	Flash every 3s

If any failure is found in Self-Test, it MUST be serviced by a qualified technician.

NOTE:

*1. GPS receiver inside of the beacon is powered off when doing Self-Test. So **GPS** LED status does not mean GPS position locked or not at Self-Test.*

2. During test, do not break the protection tab and do not open the switch cover.

3.If the battery voltage is low, Self-Test will automatically continue for 5 times until voltage is normal.

IMPORTANT NOTICE

a. The water sensor switch has two contacts exposed in air. The unexpected seawater or rainstorm at sea may make two contacts conducting. Even though, the magnetic bar on the ejector will keep the beacon from being activated. So it's very important to place the beacon in the container in proper direction and keep the container closed always, except for regular test or maintenance.

b. If false alert is activated, please carry out the following procedures to cancel:
   - Inform nearest rescue organizations, as soon as possible, to stop all rescue service.
   - Open the switch cover and slide the switch to READY position to turn off the beacon.
   - In case the beacon can't be turned off, remove or bend the antenna and put the beacon into a sealed metal case for more than 4 days until the battery is exhausted. Consult the local agent for service.

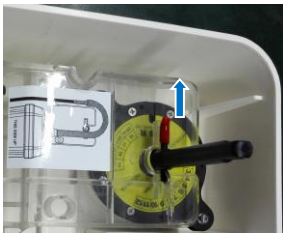
4.2 REPLACE HYDROSTATIC RELEASE UNIT

NHR-100 hydrostatic release unit should be replaced every 2 years. An expiry NHR-100 may result in failure in operation and the EPIRB may be mis-released. The expiry date is marked on the NHR-100's body so as to be checked regularly.

Follow the below steps for NHR-100 replacement:

Step 1. Open the cover of the container.
Step 2. Take out the lock pin to release the ejector.
Step 3. Remove the screws holding the NHR-100.
Step 4. Take out the old NHR-100 from the container.
Step 5. Replace with the new NHR-100. Punch or mark the expiry date on sticker.
Step 6. Reinstall the NHR-100.
Step 7. Close the container cover to complete the replacement.

Step 1

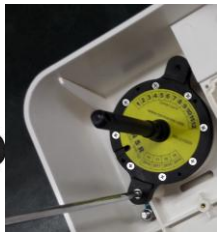


Step 2

Step 3

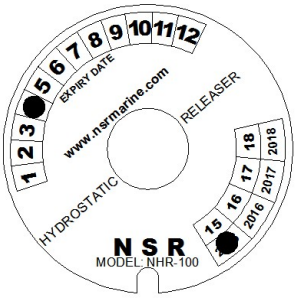
Step 4

Step 5



Step 6

Step 7



For example, the above sticker is punched as the expiry date of April 2015.

IMPORTANT NOTICE

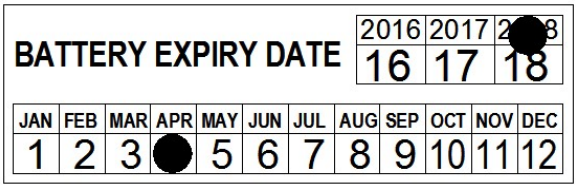
a. The water sensor switch has two contacts exposed in air. The unexpected seawater or rainstorm at sea may make two contacts conducting. Even though, the magnetic bar on the ejector will keep the beacon from being activated. So it's very important to place the beacon in the container in proper direction and keep the container closed always, except for regular test or maintenance.
b. If false alert is activated, please carry out the following procedures to cancel:
   - Inform nearest rescue organizations, as soon as possible, to stop all rescue service.
   - Open the switch cover and slide the switch to READY position to turn off the beacon.
   - In case the beacon can't be turned off, remove or bend the antenna and put the beacon into a sealed metal case for more than 4 days until the battery is exhausted. Consult the local agent for service.

4.3 REPLACE BATTERY PACK

The expiry date is marked on the beacon, and it should be checked regularly.

The battery pack for the beacon is composed of four 3.6V lithium batteries. The battery pack should be replaced when one of below cases happens:
- The EPIRB has been used in an emergency situation.
- A false activation exceeds 2 hours of use.
- The expiry date has been reached.

Follow the below steps for the battery pack replacement:
Step 1. Open the cover of the beacon by unscrewing the four bolts.
Step 2. Take off the cover, together with the PCBs.
Step 3. Unscrew the bolts to fix the square plate on battery pack.
Step 4. Take out the battery pack with the square plate.
Step 5. Remove the square plate from the battery pack.
Step 6. Replace the battery pack.
Step 7. Reinstall the batter pack with the square plate.
Step 8. Reinstall the PCB with the cover into the case.
Step 9. Fasten four bolts to fix the cover.
Step 10. Punch or mark the expiry date and adhere the sticker on beacon case.



For example, the above sticker is punched as the expiry date of April 2018.

NSR guarantees the quality of NSR EPIRB only when original NSR battery pack is used. Both NBT400 and NBT300 are battery packs used for NSR EPIRB.

NOTE :

Lithium batteries should have two terminals insulated prior to disposal because the remained power could cause severe harm to human beings. Local regulations should be followed when batteries are disposed in order to protect your environments.

5. WARRANTY

All goods manufactured by NSR are warranted to be free from defect in workmanship and material for the period of 18 months from the date of delivery (unless stated otherwise and confirmed in writings).

PROVIDED:

(a) NSR is given full particulars in writing of any claim prior to the expiration of such a period and within fourteen days of the discovery of the alleged defect.

(b) The goods have stored, installed, maintained and used properly having regard in particular to this manual.

(c) Liability shall be limited at NSR to replacement or repair or to a sum not exceeding the net invoice value of the defective goods.

(d) Upon request the alleged faulty goods are returned to NSR at the Buyer's expense.

(e) Unless expressly stipulated in the acceptance of the order NSR gives no warranty or guarantee of the fitness or suitability of the goods for any purpose whether disclosed or otherwise.

(f) All other warranties or conditions expressed or implied are hereby excluded and NSR shall in no circumstances be liable for consequential damages.

For details, please refer to NSR's official warranty policy.

PRE-DELIVERY INSPECTION LOG

☑ Battery pack:

Batch date: .....

Replacement date: .....

☑ Hydrostatic Release Unit:

Batch date: .....

Replacement date: .....

☑ Housing inspection.....

☑ Watertight verification : .....

☑ 121.5MHz transmission : .....

☑ 406MHz transmission : .....

☑ Frequency : .....

☑ General operation : .....

☑ Next Inspection due on : .....

☑ Remark : .....

.....

☑ Inspection service : .....

Date : .....

Signature and Stamp

PERIODIC INSPECTION LOG

☑ Battery pack:

Batch date: .....

Replacement date : .....

☑ Hydrostatic Release Unit:

Batch date : ….....

Replacement date : .....

☑ Housing inspection : .....

☑ Watertight verification : .....

☑ 121.5MHz transmission : .....

☑ 406MHz transmission : .....

☑ Frequency adjustment : .....

☑ General operation : .....

☑ Next inspection due on : .....

☑ Remark : .....

.....

☑ Inspection service : .....

Date : .....

Signature and Stamp

PERIODIC INSPECTION LOG

☑ Battery pack:

Batch date: .....

Replacement date : .....

☑ Hydrostatic Release Unit:

Batch date : ….....

Replacement date : .....

☑ Housing inspection : .....

☑ Watertight verification : .....

☑ 121.5MHz transmission : .....

☑ 406MHz transmission : .....

☑ Frequency adjustment : .....

☑ General operation : .....

☑ Next inspection due on : .....

☑ Remark : .....

.....

☑ Inspection service : .....

Date : .....

Signature and Stamp

PERIODIC INSPECTION LOG

☑ Battery pack:

Batch date: .....

Replacement date : .....

☑ Hydrostatic Release Unit:

Batch date : ….....

Replacement date : .....

☑ Housing inspection : .....

☑ Watertight verification : .....

☑ 121.5MHz transmission : .....

☑ 406MHz transmission : .....

☑ Frequency adjustment : .....

☑ General operation : .....

☑ Next inspection due on : .....

☑ Remark : .....

.....

☑ Inspection service : .....

Date : .....

Signature and Stamp

PERIODIC INSPECTION LOG

☑ Battery pack:

Batch date: .....

Replacement date : .....

☑ Hydrostatic Release Unit:

Batch date : ….....

Replacement date : .....

☑ Housing inspection : .....

☑ Watertight verification : .....

☑ 121.5MHz transmission : .....

☑ 406MHz transmission : .....

☑ Frequency adjustment : .....

☑ General operation : .....

☑ Next inspection due on : .....

☑ Remark : .....

.....

☑ Inspection service : .....

Date : .....

Signature and Stamp

EPIRB LOCATION LOG

☑ Vessel Name : .....

☑ ID No. : .....

☑ Port of Registry : .....

☑ Installation Date : .....

☑ Registration Date : .....

Inspection Stamp

Date, Signature

EPIRB LOCATION LOG

☑ Vessel Name : .....

☑ ID No. : .....

☑ Port of Registry : .....

☑ Installation Date : .....

☑ Registration Date : .....

Inspection Stamp

Date, Signature

EPIRB LOCATION LOG

☑ Vessel Name : .....

☑ ID No. : .....

☑ Port of Registry : .....

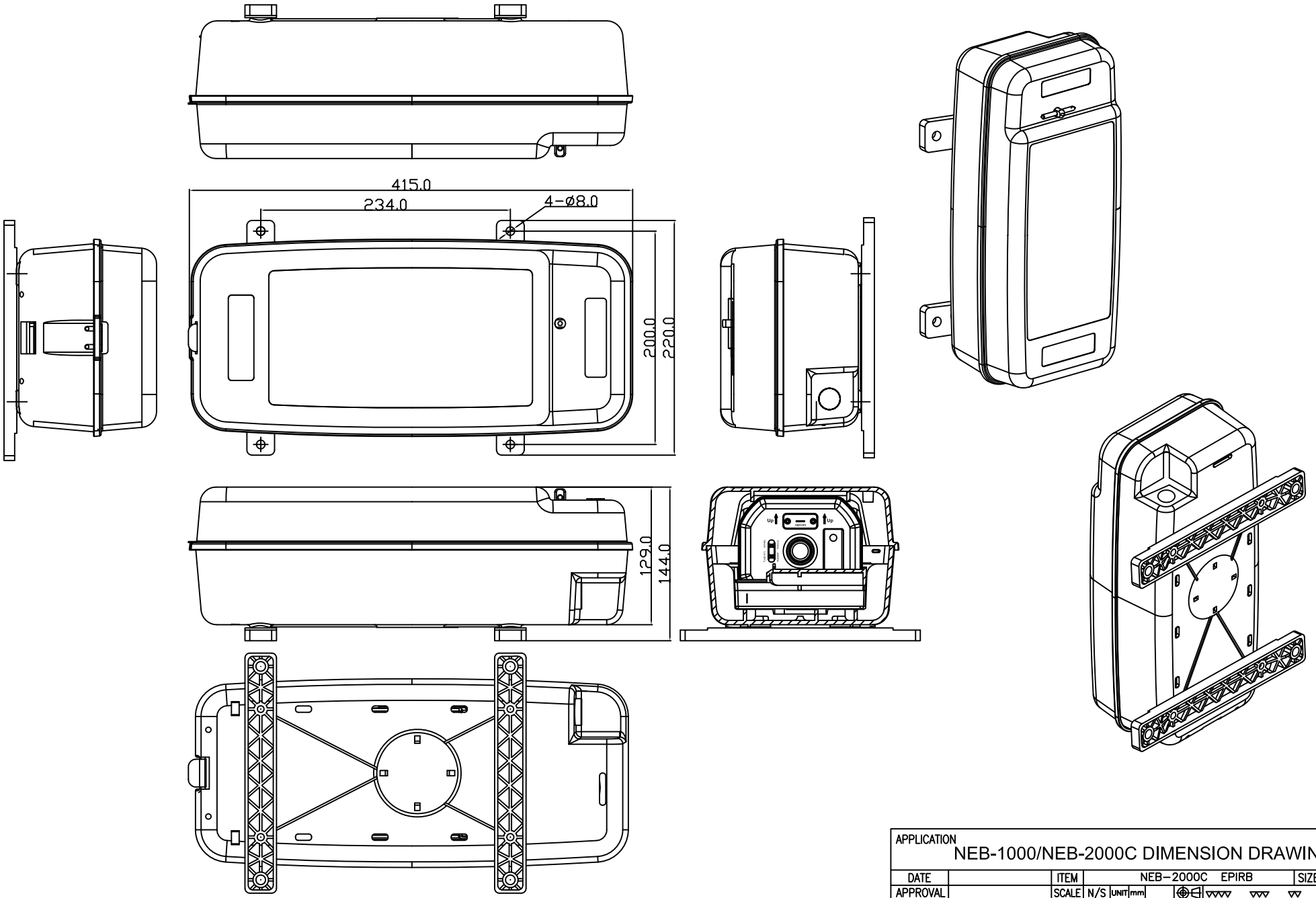
☑ Installation Date : .....

☑ Registration Date : .....

Inspection Stamp

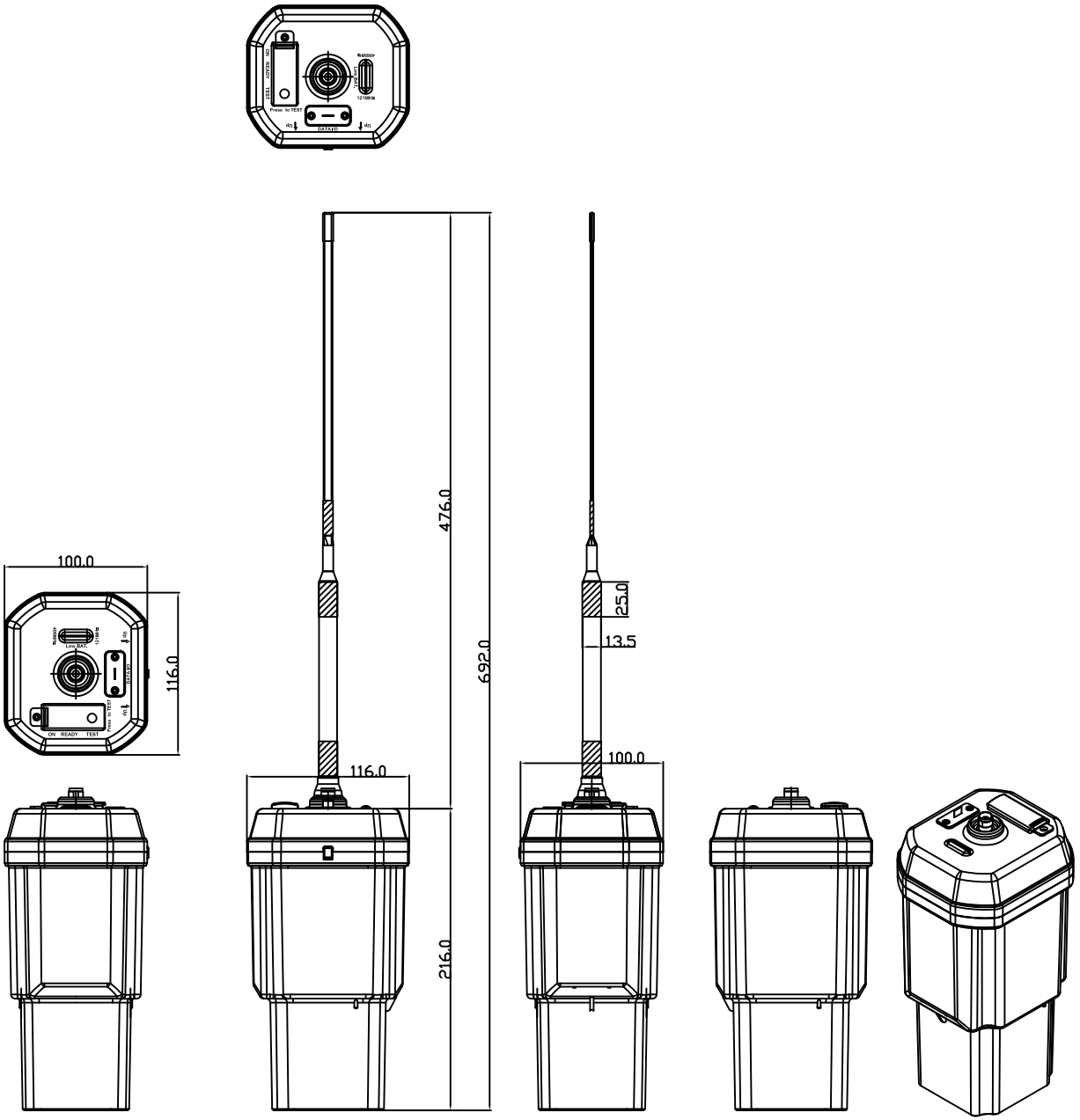
Date, Signature

APPENDIX 1 SIZE DRAWING

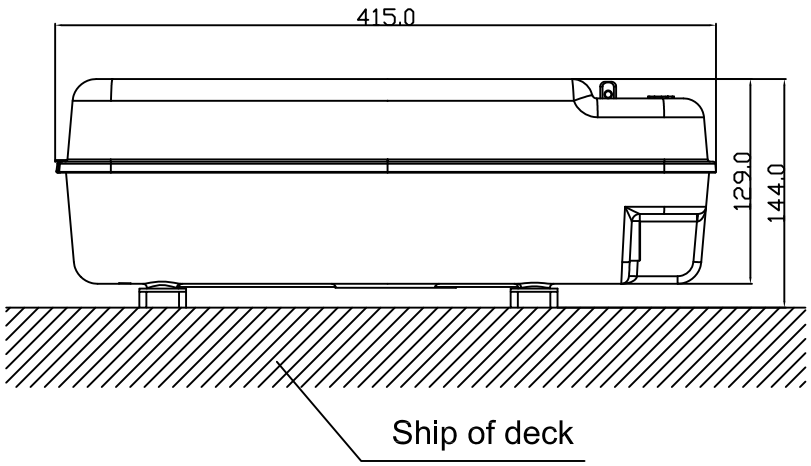


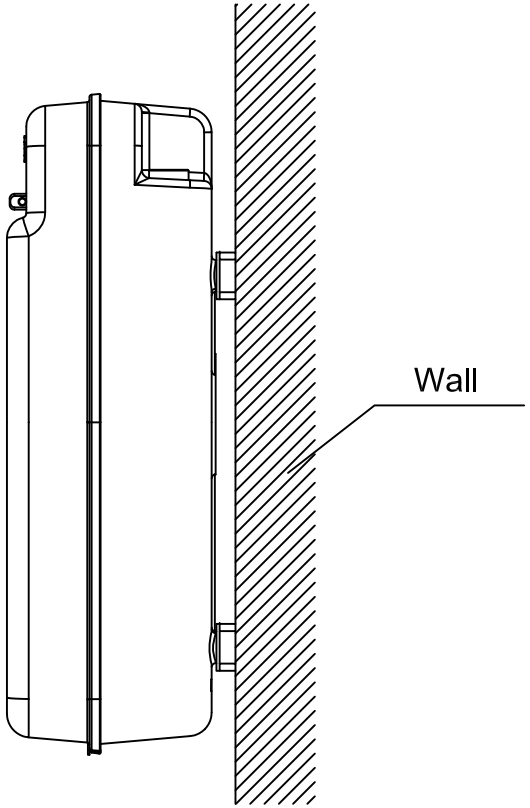
APPLICATION
NEB-1000/NEB-2000C DIMENSION DRAWING

DATE		ITEM	NEB-2000C EPIRB	SIZE	A4
APPROVAL		SCALE	N/S UNIT mm		
CHECKED		NSR marine	NEW SUNRISE CO., LTD.		
DRAWING					
DWG NO.	NEB1000-ID-001				



APPLICATION	NEB-1000 / NEB-2000C DIMENSION DRAWING				
DATE		ITEM	NEB-2000C EPIRB	SIZE	A4
APPROVAL		SCALE	N/S UNIT mm		
CHECKED		NSR marine	NEW SUNRISE CO., LTD.		
DRAWING					
DWG NO.	NEB1000-ID-002				





Important: no obstacle above NEB-2000C!

APPLICATION	NEB-1000/NEB-2000C MOUNTING DRAWING				
DATE		ITEM	NEB-2000C EPIRB	SIZE	A4
APPROVAL		SCALE	N/S UNIT mm		
CHECKED		NSR marine	NEW SUNRISE CO., LTD.		
DRAWING					
DWG NO.	NEB1000-ID-002				

APPENDIX 2 DOC

NEW SUNRISE CO., LTD.
No.79, Chunlan Road, Huangdai High-tech Park, Xiangcheng District, Suzhou, China
Tel:+86 512 66733733 Fax:+86 512 66730261
Web: www.nsrmarine.com

Declaration of Conformity

0098/202X

We **NEW SUNRISE CO., LTD.**

(Manufactory)

No.79, Chunlan Road, Huangdai High-tech Park, Xiangcheng District, Suzhou, China 215143

(Address)

hereby declare under our sole responsibility that the product

NEB-2000C

406 MHz EPIRB (COSPAS SARSAT)

(Product)

Item No.: MED /5.6

to which this declaration relates conforms to the following standard(s) or normative document(s)

Regulations	Testing standards
SOLAS 74 as amended, Reg. IV/ 7, IV/14 & X/ 3, IMO Res. A.662(16), IMO Res. A.694(17), IMO Res. A.696(17), IMO Res. A.810(19), IMO Res.MSC.36(63), IMO Res. MSC.97(73), IMO MSC/Circ.862, IMO COMSAR Circ.32, ITU- R M.633-4(12/10), ITU-R M.690-3 (03/15)	IEC 60945(2002) incl. corr.1(2008) IEC 61097-2(2008) Specification for COSPAS-SARSAT 406 MHz Distress Beacons

(Regulations)

For assessment, see

Type-Examination (*Module B*) certificate **No. MEDB00006HW**
issued by **DNV&GL**

Type-Examination (*Module D*) certificate **No. MEDD000021U**
Issued by **DNV&GL**

We hereby declare that the product complies with the Directive 2014/90/EU and regulation (EU) 2020/1170.

苏州新阳升科技股份有限公司 Q/A 质量检验 NEW SUNRISE CO., LTD.

On behalf of NEW SUNRISE Co., Ltd.

Place	Suzhou, China	**Name**	Wang Zhi Ping
Date	January 1, 2022	**Position**	QA Manager

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www.nsrmarine.com

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March 2019