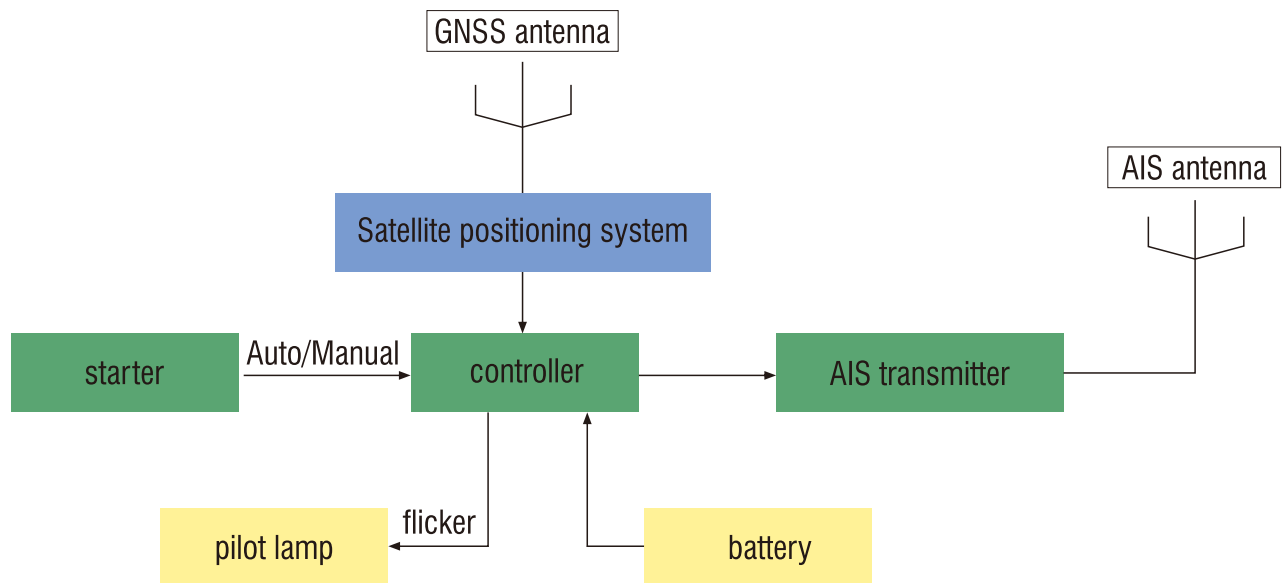


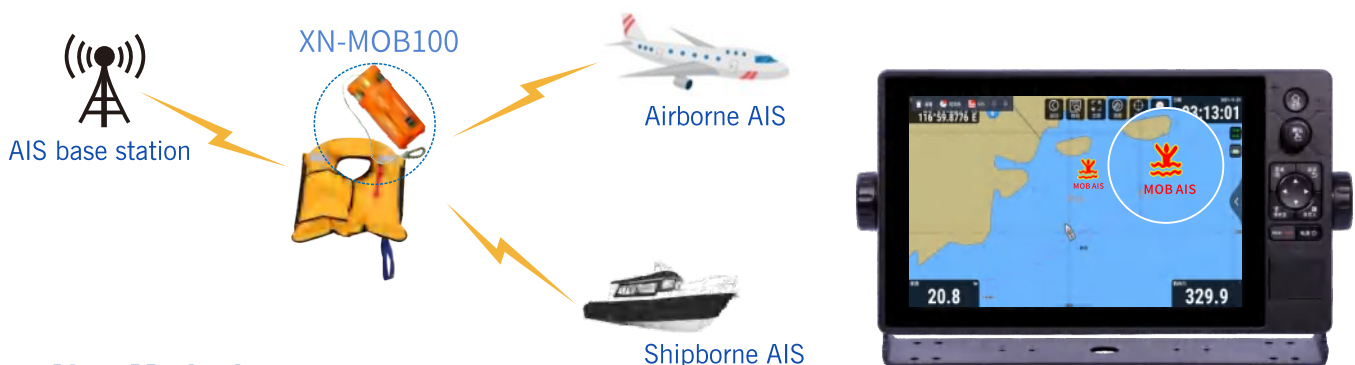


XN-MOB100 AIS Man Overboard

The AIS Personal Man Overboard Marker is a portable emergency locator device that can be attached to a life jacket or carried by an individual. This device is equipped with a built-in GNSS receiver, AIS transmitter, battery, control unit, and indicator light. It can be manually activated or automatically triggered upon water immersion. Once activated, the device utilizes AIS self-organized time division multiple access (SOTDMA) technology to automatically broadcast the individual's location and distress signal on AIS channels or designated special channels. This allows the overboard person to be quickly detected by their vessel or nearby ships, making it suitable for various search and rescue systems.



- Passed the China Classification Society CCS type approval and radio certification approval.
- Complies with IEC 61097-14, IEC 60945, ITU-R M.1371-5, and IEC 61108-1 standards.
- Compact and lightweight, easy to wear.
- Built-in high-precision GNSS module for more accurate distress location.
- Utilizes AIS technology to continuously transmit position reports on the VHF band.
- Designed for use with inflatable life jackets, automatically activates upon immersion, sending an alert every minute with 8 messages per alert.
- Broadcast range exceeds 2 nautical miles, with a continuous operation time of 72 hours.
- Information can be received and displayed by AIS shore stations, vessels, aircraft, and lifeboats equipped with AIS.
- Equipped with a daily self-test mode.



Alert Method

Automatic Activation

The XN-MOB100 AIS Man Overboard Marker automatically triggers an alert when the person falls overboard or the device is submerged. It periodically broadcasts the location and other relevant information of the person in distress.

Manual Activation

The XN-MOB100 AIS Man Overboard Marker is equipped with a manual activation button for one-touch alerting, featuring safeguards against accidental activation. Manual cancellation of the alert is also supported.

AIS Device Reception of XN-MOB100 Data

- AIS devices can receive AIS MOB data in real time, displaying the real-time location and information of the AIS MOB on the nautical chart.
- The device can show the most recent reception time, location, and total number of receptions of AIS MOB data.
- When AIS MOB data is received, an AIS distress alert window immediately pops up on the nautical chart, displaying the nine-digit AIS MOB code, alert content, location information, etc. It supports one-click viewing and one-click navigation to the distress point.



SPECIFICAT

Specifications	Description
Channel	AIS 1(161.975MHz) AIS 2(162.025MHz)
Frequency Error	≤0.5kHz
Radiated Power	1W
AIS Message Types	Message 1 (MMSI, position, speed, course, time); Message 14 (MOB activation or test)
Alert Activation Method	Manual or automatic (sea water switch activation)
Position Accuracy	≤5m (built-in GNSS antenna)
Battery Voltage	6 V
Battery Capacity	1500mAh
Battery Life	≥72 hours
Operating Temperature	-20℃~+55℃
Storage Temperature	-30℃~+70℃
Battery Shelf Life	5 years
Protection Level	IP67
Weight	Approximately 170 g
Mounting Method	Clip-on wear or strap with lanyard

Installation diagram

