



MODEL

# KS-200A+

Class B+ AIS Transponder  
Black Box



AIS Technology

**MEB Supported**

**CLASS B+**

Built-in AIS Transponder

**RS232 / WIFI**

Dual  
Programming interface

**exactTrax<sup>™</sup>**

exactTrax TRACKING SERVICE

**NMEA0183  
NMEA2000**

Interface

# AIS TECHNOLOGY, AND ONWA AIS SOFTWARE

## ■ AIS TECHNOLOGY

The ONWA Class B+ AIS Transponder transmits and receives all AIS data of nearby targets around your boat (*with suitable VHF Antenna*)



Class B+ AIS Technology

### **SOTDMA Technology**

- Same technology used by Class A
- Guaranteed time slot allocation

### **5W Transmission Power**

- increases the range and AIS Satellite reception enabling Global tracking

### **Increased Transmission Rate** (Based on speed)

## ■ User friendly interface

Stay connected like never before. The KS-200A+ now includes built-in Wi-Fi, allowing for seamless updates, and effortless integration with other devices onboard.

## ■ Dual Color LED Pilot Light

With the addition of a dual color LED pilot light, the KS-200A+ provides a clear and unambiguous indication of GPS fix status. This innovative feature ensures that you're always informed about the GPS status at a glance, enhancing safety and reliability.

## ■ NMEA 2000 Compatibility

Expanding on its predecessor's capabilities, the KS-200A+ offers full NMEA 2000 support, ensuring flawless communication with all NMEA-compatible devices. This feature enhances the flexibility and efficiency of data sharing across your vessel's network.

## ■ Web configuration or RS232 programming interface

Configure AIS information for your vessel, such as MMSI, Call Sign, Vessel name, etc.

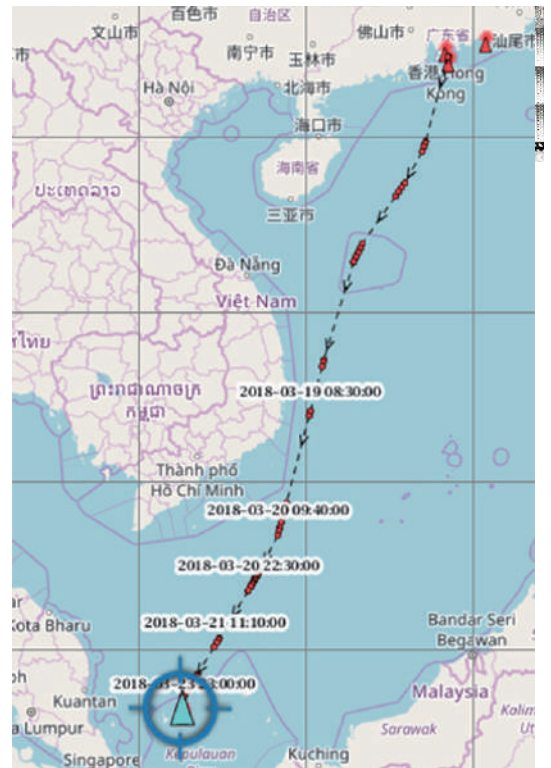
# exactTrax™

(exactTrax Tracking)

## \*Specify when ordering

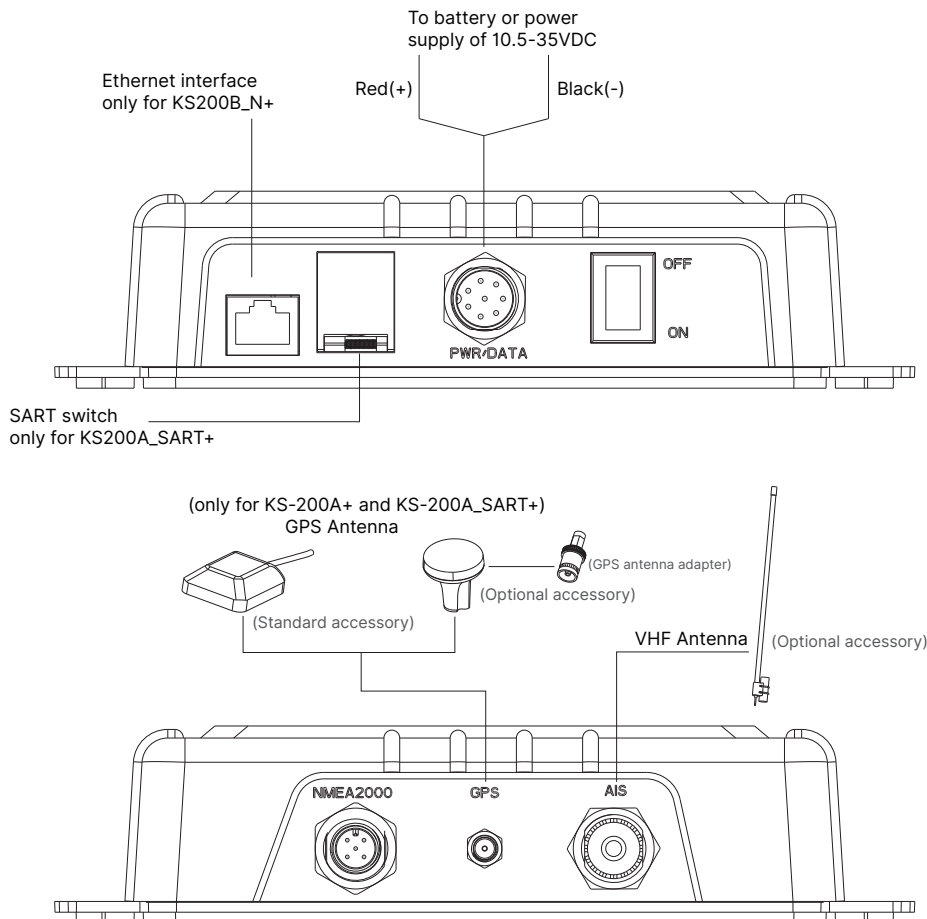
- Track fishing boats and small commercial vessels with AIS Class B type transceivers across the globe.
- Can send standard AIS message and exactTrax message (exactTrax message shows MMSI and position only).
- ONWA AIS can connect other sensors to the AIS module, such as ultrasonic weather sensor and speed log, to send with exactTrax message.

**NOTE:** In order to use exactTrax, user must avail  
*ExactEarth Service*



ExactTrax showing position of a vessel sailing for 1 week from Hong kong to Malaysia in multi-hour vessel track

## SYSTEM CONFIGURATION



\*Suitable VHF Antenna

### •KA-159

(not included in the set, specify when ordering)



\*GPS Antenna

### •KA-09

(not included in the set, specify when ordering)



# SPECIFICATIONS

GPS Receiver (AIS Internal)

IEC 61108-1 compliant

Connectors

VHF Antenna connector PL259 female

GPS Antenna connector SMA female

NMEA 2000 Interface

## PHYSICAL

Dimension:

200mm(length) x 102mm(width) x 45.8mm(height)

Weight:

0.45kg

## POWER

Input:

10.5~35VDC

Power Consumption:

0.20A nominal

Electrical Interface

RS232 38,400 baudrate bi-directional

Environmental

IEC 60945 (Cat C)

Operating Temperature:

-25°C to +60°C

NMEA Sentence Supported

VDM, VDO, RMC, GSV, GGA, GSA

## AIS CHARACTERISTICS

Frequency Rate:

161.975 MHz, 162.025MHz

Access Scheme:

SOTDMA

Channel Bandwidth:

25KHz

Modulation:

AIS GMSK

Number of AIS Transmitter:

1

Number of AIS Receiver:

2

AIS Channel 1:

CH 87B (161.975 MHz)

AIS Channel 2:

CH 88B (162.025 MHz)

Standard TX Power Output:

5W

Customizable TX Power Output:

2W, 12.5W

RX Sensitivity:

< -120dBm @ 20% PER

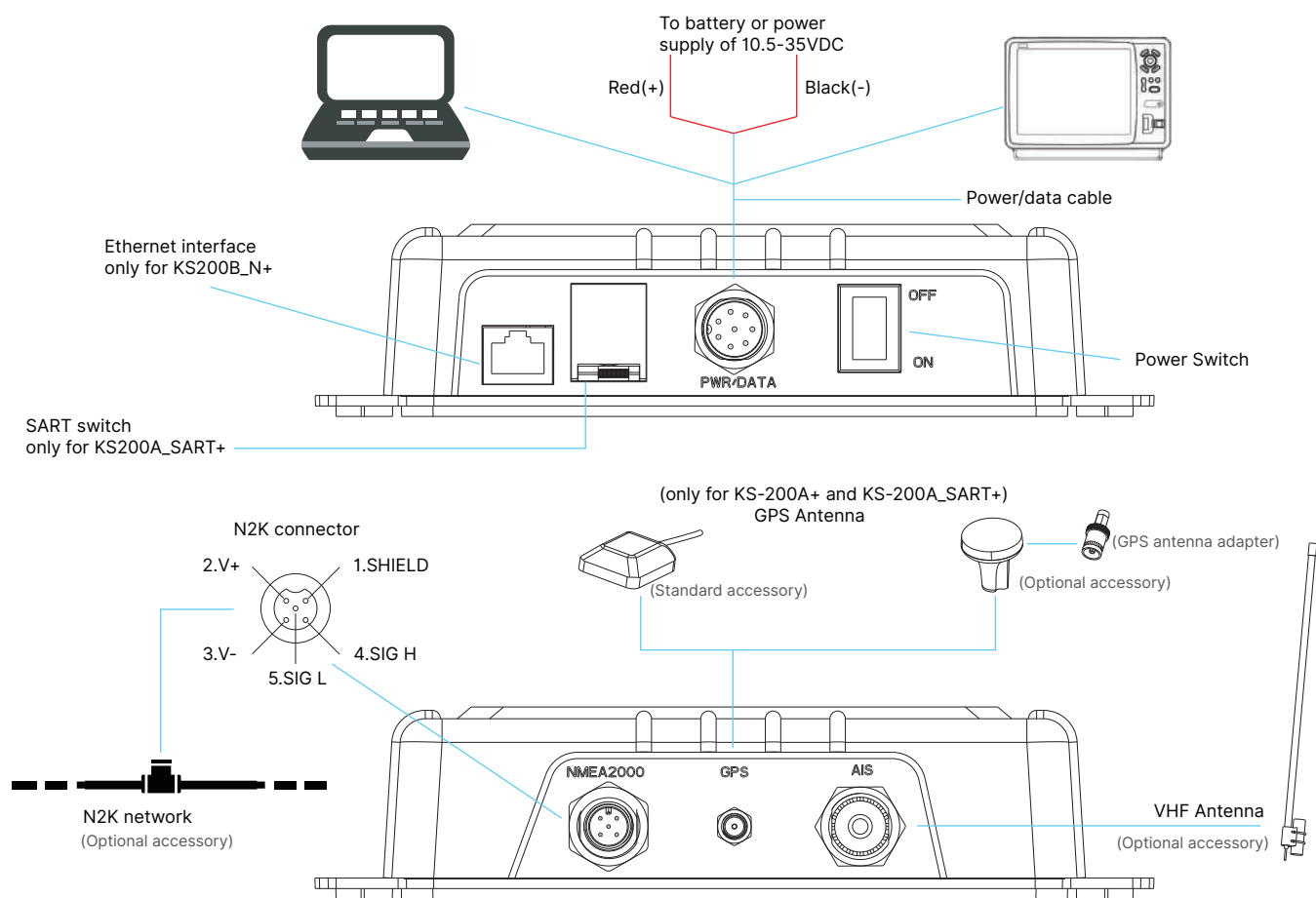
RX Message Format:

AIS Class A and B messages

Comply Standard:

IEC-62287 IEC 62287-2  
Ed. 2.0:2017

# Interconnection diagram



# Dimension

