

# AIS 200 P



KONGSBERG

## The compact, self-contained portable AIS Mobile Station

Kongsberg AIS 200 P is an “all-in-one” compact AIS mobile station. This rugged AIS unit is designed for easy transportation and installation on board vehicles not carrying an AIS Mobile Unit. The AIS 200 P can run on either 230 VAC or 24 VDC and has an internal battery backup to ensure operation in case of temporary power failure. A built-in state of the art WLAN as well as an external PI interface and sensor interfaces, together with the integrated MKD, ensure easy installation and maintenance.

The Kongsberg AIS 200 P is based on the well proven wheel marked mobile unit AIS 200. All electronics are incorporated into a splash proof case with an easy-to-spot colour. The power switch and external connectors are easy accessible in a protected recess. The MKD and operational LEDs are protected under the top cover of the unit. The operational light diodes will indicate power on, VHF transmitter/receiver mode and the built-in fault detection system will indicate if maintenance is required.

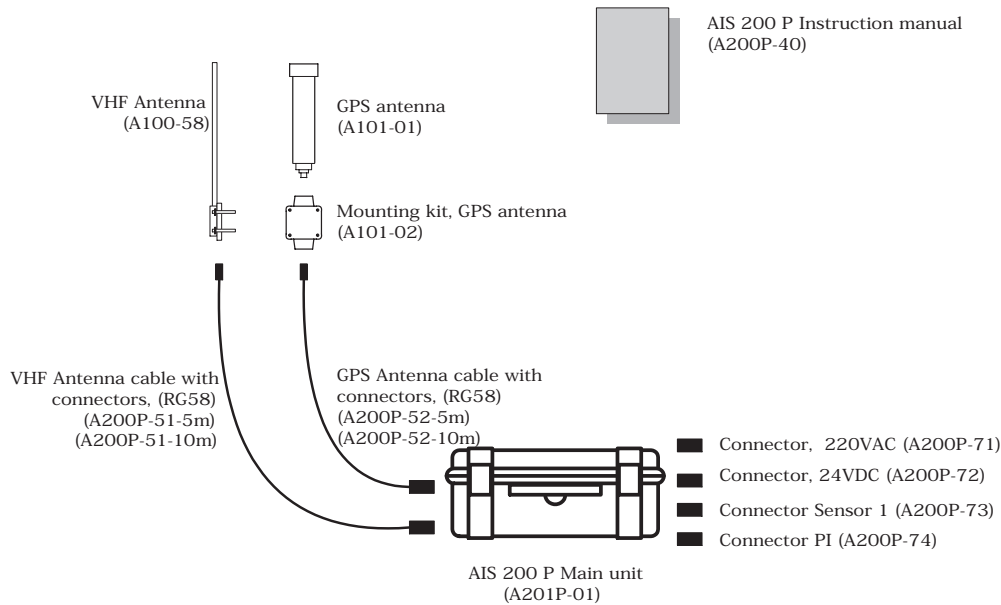
The AIS 200 P can be configured by utilizing the integrated MKD or WLAN. The 200 P can also be interfaced to the vessel's ECS/ECDIS and the main navigation system and gyro. The unit is powered either by 230 VAC or 24 VDC. If the mains power fails, the internal backup battery will power the unit for approximately one hour. The battery is automatically charged when 230 VAC is connected.



### Standard features:

- Splash proof (IP 34)
- Floatable
- Smooth and rounded corner design with carry grip
- Orange coloured casing
- 230 VAC or 24 VDC power input
- 1-hour backup battery-pack
- Configuration and setup from integrated MKD or WLAN
- Externally accessible power switch and operational status light diode
- External VHF and GPS antenna
- External interface to ECDIS/ECS
- External interface to the vessel's main navigation system/gyro

# System Drawing



## Technical Specifications

### Radio module

VHF transmitter:	12.5 W/ 2W
Receiver sensitivity:	-107 dBm
Protocol:	SOTDMA
Modulation:	GMSK
Bandwidth:	12.5kHz or 25 kHz
Frequencies:	156.025 MHz - 162.025 MHz Default CH87B (161.975 MHz) Default CH88B (162.025 MHz) CH70 (156,525 MHz)

### GPS module (internal receiver)

12 Channel GPS receiver (all in view)	
Position accuracy (GPS):	15 m r.m.s.
Position accuracy (DGPS):	5 m r.m.s.
Output rate:	1 Hz

### Interfaces

External ports (PI, SENSOR):	2xRS-422 (isolated)
Internal ports (MON):	1xRS-232 (unisolated)
Message formats:	IEC 61162-1 / IEC 61162-2 / IEC/PAS 61162-100
WLAN type:	D-Link DWL-G730AP

### Standards

Product safety low voltage:	IEC 60945/EN60950
WLAN:	IEEE 802.11 / FCC / CE
Electromagnetic compatibility immunity/radiation:	IEC 60945/EN60945
Vibration:	IEC 60945/EN60945
AIS:	IEC 61993-2 / ITU RM 1371

### Reliability data

MTBF (h):	30 000 (30°C)
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### External power

Input voltage:	24 VDC ± 10% / 230 VAC
Power consumption:	20 W (nominal) 50 W (peak)

### Battery power

Battery type:	Rechargeable sealed lead acid cells
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### Display

Internal Minimum Keyboard and Display (MKD)
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### Environmental

#### AIS 200 P Main Module

Operating temperature:	-15 to +55°C
Storage temperature:	0 to +40°C
Humidity - operating:	0-95% RH
Protection:	IP 34

#### GPS and VHF Antenna

Operating temperature:	-40 to +55°C
Storage temperature:	-40 to +55°C
Humidity - operating:	0-95% RH
Protection:	Hermetically sealed

### Weight

AIS 200 P main unit: (excl. antennas and cables)	11 kg
GPS Antenna:	0,2 kg
VHF Antenna:	1,1 kg

### Dimensions

AIS 200 P main unit: (HxWxD)	175x470x387 mm
GPS Antenna (DxH):	38x313 mm
VHF Antenna (H):	1250 mm

Specifications subject to changes without further notice.

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