

### AIS Base Station

The AIS Base Station (Automatic Identification System) is a system that operates in the VHF maritime mobile service, capable of exchanging information on identification, position, course, speed and other data between coastal stations and ships, allowing the management of multiple reports and high update frequency, based on SOTDMA technology (Self Organization Time Division Multiple Access).

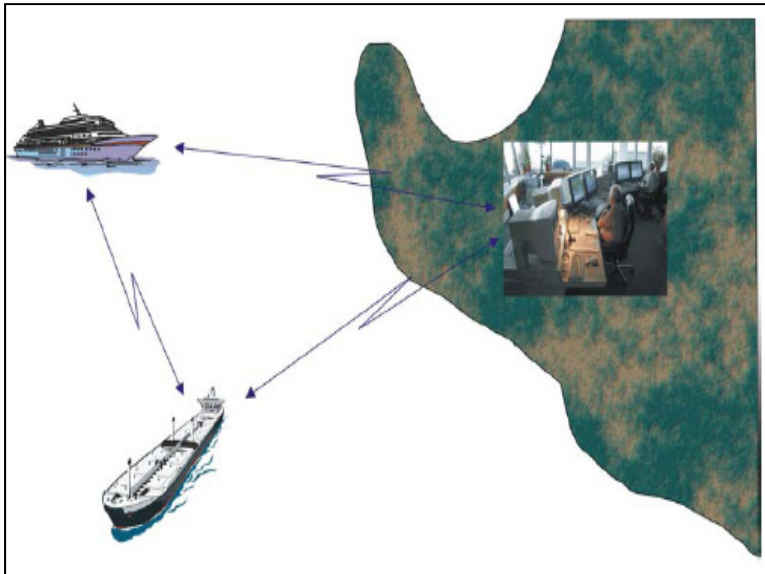
The AIS Base Station meets the latest IALA Recommendation on Automatic Identification Systems (AIS) Shore Station and networking aspects relating to the AIS Service (A-124 Recommendation).



### FEATURES

- Automatic identification of the IMO number, MMSI, landmarks and vessel names.
- Reception of messages with information regarding coordinates, course, speed development, etc., through the AIS radio data link from other vessels and display of this information to AIS and VTS screens.
- Reception of data relating to the swinging radius, type of ship, port of destination and time of arrival in this port, route planning, existence of hazardous cargo.
- Reception of static and dynamic data and binary messages.
- Reception and transmission of text messages relating to security.
- VDL FATDMA access scheme in accordance with Rule 14.2.2 of the IALA Recommendation A-124.
- Transmission of ship tracking data from radar tracking system to the mobile AIS units (VHF AIS links).
- Reserves time slots for the access pattern FATDMA (Case \$ - BCF and \$ - DLM as IALA Recommendation A-124).
- Reception of GNSS differential corrections (GPS) from the GNSS reference station or data link of the beacon and transmission of the data through the AIS.
- Assignment of operating modes appropriate to the ship stations, including the assignment of areas, frequencies, radiation power, slots, intervals of sending reports, report number.
- External time ports synchronization (1PPS, sensor).

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Being a VHF data communication, it allows the identification of other boats behind obstacles which cannot be seen without the use of radar and permits the prevention before a visual contact.

### Regulations

AIS Base Station T214 fully complies with the following Standards:

- IEC 62320-1
- IEC 61993-2
- ITU-1371-1, 2
- ITU-R M.825-3
- IEC-60945
- IEC 60950
- IEC 61162-1,2
- ETS 301 489-1



### Remote y Monitoring

The Base Station can be controlled / monitored remotely through the ports of presentation MAIN \ AUX or TCP \ IP. The basic functions of remote control are:

- Reset of the Base Station.
- Channels Management.
- Administration of special AIS areas.
- Diagnosis of the basic AIS Base Station.

In addition to the basic functionality of control / diagnostics, the base station performs the following extended functions of remote monitoring:

- Base Station Switch On / Switch Off .
- Automatic selection of the supply (main or emergency) without interruption of work.
- Monitoring of the internal temperature and fan status.
- Monitoring of the status of the power supply (power supply used, mains and emergency power supply voltage).
- Control of Digital Output / Input.
- Update of the Remote firmware of the Base Station.