

VDL 6000/FASS



The VDL 6000/FASS can be factory configured as the following base station types:

- AIS Base Station (can be set as receive-only)
- Repeater Base Station
- AtoN Base Station

The AIS Shore Station – VDL 6000/FASS fulfills requirements of international AIS standards and provides all the features required for extended vessel traffic surveillance.

Low power consumption and alternative power sources drastically limit the need for infrastructure investments.

Features

The VDL 6000/FASS can be factory configured to support several features.

The AIS Base Station provides a number of functions, including filtering of AIS targets by selection of MSG type and/or filtering of a defined area. The AIS Base Station can be equipped with dual antennas.

The AIS Base Station can be set to function as a receive-only base station.

The AIS Base Station is also available as a Repeater Station, which is an ideal gap-filler at remote and isolated locations. The dual antenna configuration allows the Repeater station to receive and transmit on directional antennas. This greatly improves coverage and distance in an AIS network. The VDL 6000/FASS, factory configured as Repeater station, is the perfect choice when implementing an AIS network where extended coverage at remote locations is required.

The AIS Base Station can be factory configured to support AtoN features. The AtoN Base Station is capable of storing one Real AtoN station and multiple (up to 20) Virtual or Synthetic AtoN stations in its AtoN database. The AtoN database also contains aids-to-navigation report transmission schedules for each AtoN station.



CNS SystemsTM

Technical Specifications

Power

Input voltage	100 – 240 V AC, 50 – 60 Hz and/or +24 V DC
Power consumption	Idle 15 W, Nominal 25 W, Max 40 W

Radio

Transmitter output power (adjustable)	12,5 W / 1 W, 50 Ohm load
Receiver sensitivity, 20% MER	< -107 dBm
Bandwidth	25 kHz
Protocol	TDMA (AIS)
Baud rate	9600 bps (AIS) / 1200 bps (DSC)
Modulation	GMSK (AIS) / FSK (DSC)
Frequencies	156.025 MHz – 162.025 MHz
Default channels	87B (161.975 MHz) 88B (162.025 MHz) 70 (156.525 MHz)

GNSS Receiver

GPS	L1, 16 parallel channels
DGNSS support	NMEA via network

Base Station Feature

AIS base station	Ordinary (can be set as receive-only)
Repeater base station	Optional
AtoN base station	Optional

Interfaces

VHF antenna (combined Tx/Rx)	N female, 50 Ohm
VHF antenna (separate Tx and Rx)	Optional: N female, 50 Ohm
GPS antenna	TNC female, 50 Ohm
Power, AC	IEC320, C14
Power, DC	Three pole male
Network	RJ45 Ethernet

Standards

ITU-R M.1371-4
ITU-R M.1084-4
IEC 62320-1
IEC 62320-2
IEC 61162-1, 2
IEC 61108-1
IALA Recommendation A-124
EN 60950
R&TTE Directive 1999/5/EC
IPC-A-610 (manufacturing)
RTCA/DO-178B (SW development)

Physical characteristics

Depth	465 mm (excl. connectors and front handles)
Height	4 HU (177.8 mm)
Weight	9,2 kg
Width	Standard for mounting in 19" rack

Compliance

BSH Statement of Conformity
CE Declaration of Conformity



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