WatchMate XB-6000
High performance Class B AIS transponder

Built-in GPS antenna and NMEA 2000 Gateway.

UNLIKE ANY OTHER AIS

The high performance Class B AIS with built-in NMEA 2000 gateway and internal GPS, XB-6000 integrates AIS, GPS and NMEA information so that you can see your safety and navigation on any AIS-capable chart plotter or MFD. Or use your PC and Mac for easy computer navigation. Easily integrate AIS to your existing marine electronics and convert NMEA 2000 & 0183 instrument data to USB, facilitating 3rd party navigation software.

- NMEA 2000 / 0183 and waterproof USB

- Compatible with all NMEA 2000 certified chart plotters and MFD's

- The only AIS transponder that can be used as a GPS source for NMEA 2000

- Fast 5Hz GPS update rate provides greater detail and higher resolution plotting

- Can be put in Silent Mode (receive-only)

- Includes 50 channel GPS with WAAS/EGNOS and powerful external GPS antenna

- Built-in internal GPS antenna allows for easy installation when the XB-6000 has a view of the sky. Perfect for small vessels

- Galvanic isolated USB and NMEA ports protects the transponder and your other equipment against damage and installation problems

EASY PLUG AND PLAY

Splitter

USB

VHF Radio

NMEA 0183 or 2000

MFD   Wind   Depth   Heading   Others

The only AIS transponder with fast 5Hz GPS navigation rate. Use the XB-6000 as your primary GPS source for your NMEA 2000 and NMEA 0183 equipment.

NMEA 2000 GATEWAY AND GPS

The XB-6000 translates NMEA 2000 instrument data such as heading, wind, depth, speed, log, and temperature. This allows you to view this data, along with GPS and AIS information, simultaneously on all AIS-capable chart plotters, multi-function displays and computer software.

Works seamlessly with Garmin, Raymarine, Simrad, B&G, Lowrance and others.

The built-in internal GPS antenna means there is no need for multiple external GPS antennas in many installations. You can even use the XB-6000 as your primary GPS source for all chart plotters and multi-function displays.
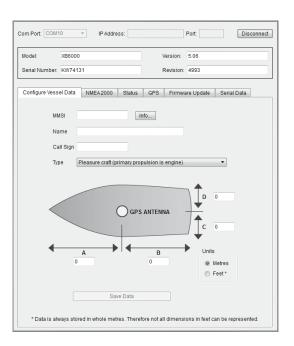
ROBUST AND RELIABLE

- Fully waterproof, rated IPx7 (submersible to 1m for 30 minutes)

- Wide operating temperature range

- Galvanic isolated NMEA and USB connections prevent ground loops and damage to connected devices

- Self diagnosis status lights to indicate functioning AIS, GPS and antenna

- World-wide two year warranty

FAST AND EASY INSTALLATION

- Compact low profile unit can be placed in any orientation

- All cable connection points are contained within the footprint of the unit

- External GPS antenna is included with small cable connector facilitating easy routing through holes and conduits

- Standard VHF antenna connection does not require special cables or connectors

- Fully NMEA 2000 certified for compatibility

- Interface with any devices over NMEA 0183, NMEA 2000 and USB

- Convenient configuration and troubleshooting via free PC and MAC software

- Solve common antenna issues using built-in VSWR meter

Incorporates Vesper Marine patented AIS technology.

TECHNICAL DATA

SIZE	200mm wide x 130mm high x 60mm depth (7 7/8" x 5 1/8" x 2 3/8")
POWER SUPPLY	10-32 VDC 2A max, 2.5W nominal
ENVIRONMENTAL	Watertight (IPx7)
OPERATING TEMPERATURE	-25°C to +55°C (-13°F to 131°F)
STORAGE TEMPERATURE	-25°C to +80°C (-13°F to 176°F)
NUMBER OF RECEIVERS	2 AIS, 1 DSC (timeshared)
NUMBER OF TRANSMITTERS	1 AIS
RECEIVE FREQUENCY RANGE	156.025 – 162.025 MHz
TRANSMIT FREQUENCY RANGE	161.500 – 162.025 MHz
AIS SENSITIVITY	-113 dBm < 20% PER
POWER OUTPUT	33 dBm (2W)
GPS SENSITIVITY	-159dBm tracking & navigation -142dBm acquisition
GPS DIFFERENTIAL SUPPORT	SBAS: WAAS, EGNOS, MSAS, GAGAN
GPS NAVIGATION RATE	Selectable 1Hz or 5Hz with magnetic variation included in output
SERIAL DATA	1 USB port (isolated), 1 NMEA input (isolated RS422), 1 NMEA output RS422)
NMEA 2000 GATEWAY	Converts selected instrument PGN's to 0183 and USB
USB CONNECTOR	Mini USB (USB 2.0)
NMEA 2000 CONNECTOR	NMEA 2000 Micro-C male. Requires female drop cable (not included)
POWER/DATA CONNECTOR	10 pin circular. Incudes 2m cable with molded waterproof locking plug
VHF ANTENNA REQUIRED	50 ohm, max 2:1 VSWR @ 162 MHz. PL-259 connector