

# AISWatchMate® - Getting Started Guide

CPA	Closest point of approach in nautical miles. The nearest a target will come to your vessel if both maintain their course and speed.
TCPA	Time until closest point of approach will occur (minutes and seconds).
BRG	Bearing from your vessel in degrees magnetic, true or relative.
RNG	Range from your vessel in nautical miles.
SOG	Speed over ground in knots.
COG	Course over ground in degrees true or magnetic.
HDG	Heading in degrees true or magnetic.
ROT	Rate of turn shown as direction and degrees per minute.
IMO	International ship registration number.
MMSI	Radio identifier. Used to call vessels via DSC radios.

AIS data is received at various intervals. As a result, you will see the MMSI number instead of the ship's name until more data has arrived.

## Alarm Types

*Guard alarm* - based on each a target's current distance from your vessel.

*CPA alarm* - there are four settings associated with CPA alarms: CPA alarm distance, time until CPA (TCPA), target speed and your vessel speed. The CPA alarm distance indicates which targets may trigger the alarm. The other settings suppress alarms if the TCPA is too great, or either vessel's speed is too slow. Help for these, and all other settings, is displayed on each setup screen.

## Muting Alarms

Alarms are muted for each individual target. All other targets remain active.

## Profiles

Alarm and filter settings are grouped into four profiles (anchored, harbour, coastal, offshore). You can change the settings for each profile and switch between profiles at any time.

## Filters

You may filter targets which are moving slower than a specified speed or farther away than a specified range. Use setup to establish filters for the current profile.

## Setup

To change alarm and filter settings associated with a profile, you must select the profile prior to entering setup mode.

# Wiring the Display Unit

Brown	12 volt DC positive (+) (10-16 volts DC)
Blue	12 volt DC negative (-)
Red	Port 1 ground
Pink	Port 1 data in
Gray	Port 1 data out
Yellow	Port 2 ground
Green	Port 2 data in
White	Port 2 data out
Black	External alarm switch
Orange	External alarm switch

## Configuration

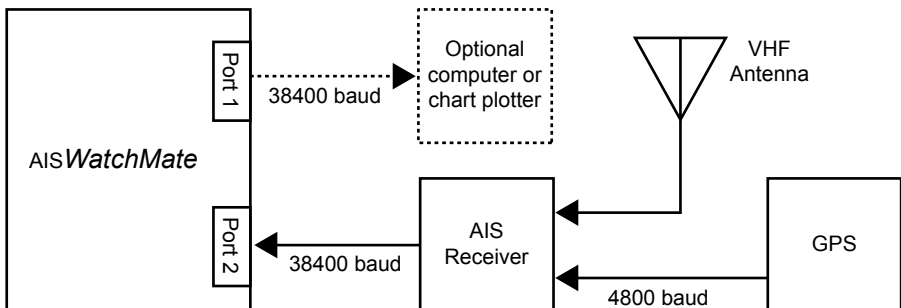
The *AISWatchMate* has two serial ports. Each port can be configured for input, output or both. When using a port for both input and output, the baud rate must be the same for both. Port configuration is performed in the setup menu by selecting the type of device connected to each port. The appropriate baud rate is automatically determined by the type of device chosen for that port.

**You must connect the *AISWatchMate* to a GPS for alarms to function.**

## Routing GPS data through the AIS receiver

You may use this configuration if your AIS receiver is capable of accepting GPS data and merging it into its output stream.

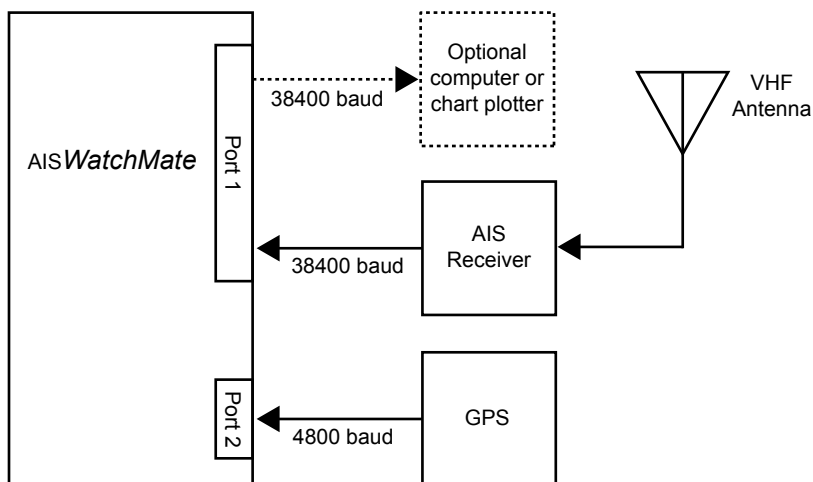
This is the default configuration and no setup options need to be changed.



## Routing GPS and AIS data direct to the AISWatchMate

Use this configuration if your AIS receiver cannot merge the GPS data into the output stream or if it is easier to install it this way. GPS and AIS data are fed separately to the AISWatchMate where it can be merged and output to a computer or chart plotter.

To use this configuration, select GPS as the input device for port 2 in setup.



## Routing output data to a computer or chart plotter

The AISWatchMate merges all NMEA data received over both input ports into a single output stream which may be wired to a computer or chart plotter. Connect your computer or chart plotter to one of the output ports and select the appropriate device in the setup menu. Your computer or chart plotter must be set to operate at 38,400 baud.

## External alarm wiring

To control an external alarm, buzzer or indicator, use the orange and black wires. They are normally open and become switched together whenever the internal alarm is sounding. **Do not exceed 2 amps.** It is recommended that you install a fuse to protect against over current.

## Warnings

An AIS receiver and the *AISWatchMate* work in conjunction with other vessels and systems such as transponders and GPS. The accuracy of this device and the AIS system can be affected by many factors, including equipment failure or defects, environmental conditions and incorrect installation, handling or use. Vesper Marine does not warrant that this product is error-free. It is the user's responsibility to exercise common prudence and navigational judgement. This device should not be relied upon as a substitute for such prudence and judgement. Always maintain a permanent watch so that you can respond to situations as they develop.

The prudent mariner will not rely on a single aid to navigation. The user should verify the information obtained from the *AISWatchMate* is in accordance with expected situations and conditions. The information is not guaranteed to be accurate or reliable and an AIS receiver and the *AISWatchMate* are not a substitute for proper seamanship.

**Vesper Marine Limited cannot be held liable for any injury, damage or loss, caused by, during, or because of the installation, use or inability to use this device. The *AISWatchMate* is to be installed and used entirely at your own risk.**

This product is intended to be used on leisure vessels or small work boats (excluding IMO/SOLAS class). This product has been designed and manufactured to be used only aboard vessels.

Take care when cleaning to avoid damage:

- Be careful when wiping the display screen to avoid scratching. Use a clean soft damp cloth.
- Do not use acid, ammonia, solvents or any abrasive products.

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Vesper Marine Ltd.

Westhaven Drive, St. Mary's Bay

PO Box 91164, Victoria Street West

Auckland 1142

New Zealand

+64 9 950 48 48

[www.vespermarine.com](http://www.vespermarine.com)

[support@vespermarine.com](mailto:support@vespermarine.com)