



Motion Sensing System

The BJ Marine Tech. Motion Sensing System is a low cost unit which provides heading, pitch and roll data as well as heave, yaw and sway acceleration data. The Motion Sensing System is designed to provide instrumentation for ships and Remote Operated Vehicles, though it can be used on any type of vehicle.

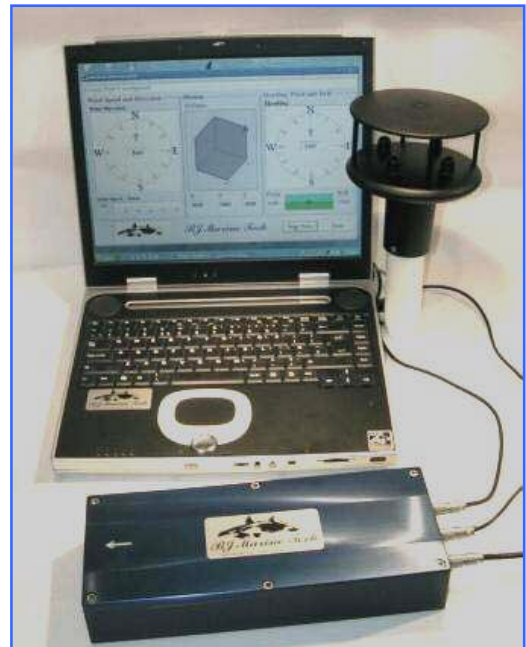


The system uses industry standard sensors to read the motion and heading. Additional sensors can be incorporated to read wind speed and direction, atmospheric pressure temperature etc. When used onboard an R.O.V. an acoustic altimeter and pressure sensor can also be incorporated to give distance off the sea bed and depth of the R.O.V.

The unit accepts eight analogue inputs (0-5 Volt), which are digitised using a BJ Marine Tech Ltd. Programmable Instrumentation Multiplexer (PIM). The PIM card digitises the sensor outputs and combines the readings into a single serial data stream.

Two serial ports are provided; one serial channel is dedicated to the compass module.

The second serial channel is used to send the multiplexed data. The data is sent in ASCII format at 9600 baud. When used in continuous mode the system updates approximately 10 times per second. The data can be received and displayed on a terminal or PC, or transmitted via a wireless modem. This data stream can be transmitted to a host computer, using the on board RS232.



Other output options are available, RS422, RS485, and Ethernet TCP/IP

The unit can be supplied in various requirements. The blue hard anodised aluminium enclosure is most suited for harsh environments. A pressure resistant cylinder enclosure for the undersea environment or a light weight aluminium enclosure for use in more protected environments.

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BJ Marine Tech Ltd. reserves the right to change or modify the specifications without notice.