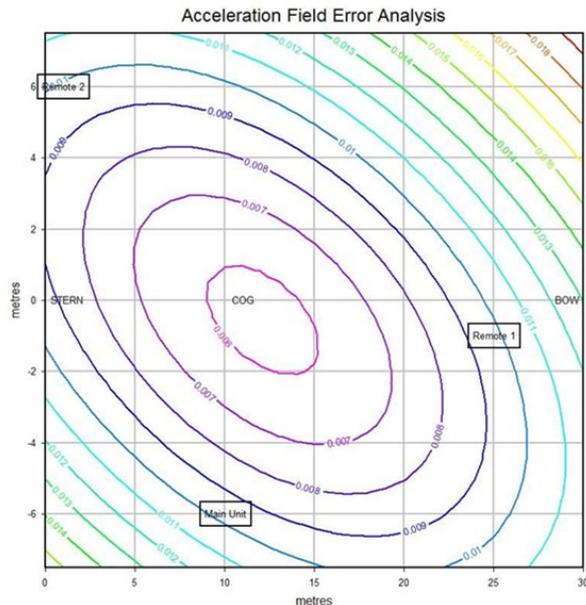




Adaptive Inertial Matrix for Complex Motion Measurement Applications



Adaptive Inertial Matrix (AIM) is a unique hardware and software development based around MEMS technology (Micro Electrical Mechanical Systems) digital Inertial Measurement Units (IMU). IMU units typically incorporate accelerometers, rate gyro sensors, and magnetometers. They have developed over a number of years and in so doing established a reliable and accurate measurement capability at an affordable cost. The AIM system also has available additional analogue signal interfacing plus RS232/RS485. RJ45 Ethernet is also available for data export and presentation.

Distinct from other motion measurement systems, AIM takes advantage of MEMS technology price/performance capability by incorporating multiple IMU in order to establish an overall measurement performance consistent with a target application. For example, the long period motion of a large rig or FPSO requires a very different sensor configuration from that experienced by smaller work vessels.

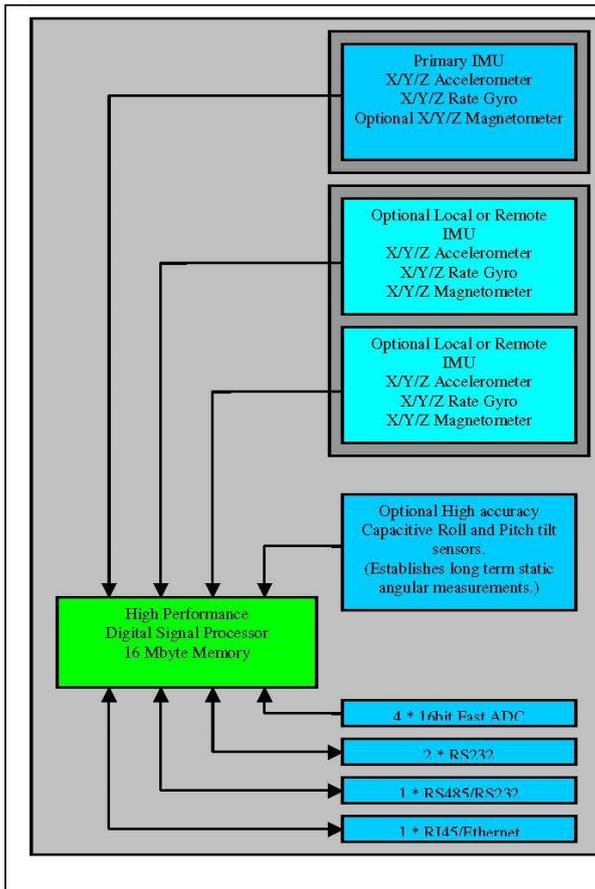
Key advantages can be summarized:

1. Multiple IMU establish greater accuracy than can be achieved with a single sensor.
2. Multiple IMU establish continuous measurement through a wider dynamic range than is possible with a single sensor.
2. Multiple IMU with spatial separation between sensors establish additional capability for motion identification and resolution.

WISE Group—Automasjon og Data AS
Vassbotnen 23
4033 Stavanger, Norway.
Tel.: +47 51 12 30 80
www.wisegroupsystems.com
post@automasjon.no

WISE Group—Muir Matheson Ltd.
31 Abercrombie Court, Prospect Road, Westhill
AB32 6FE Aberdeen, UK.
Tel.: +44 (0) 1224 001960
www.wisegroupsystems.com
post@wisegroupsystems.com

Key Components



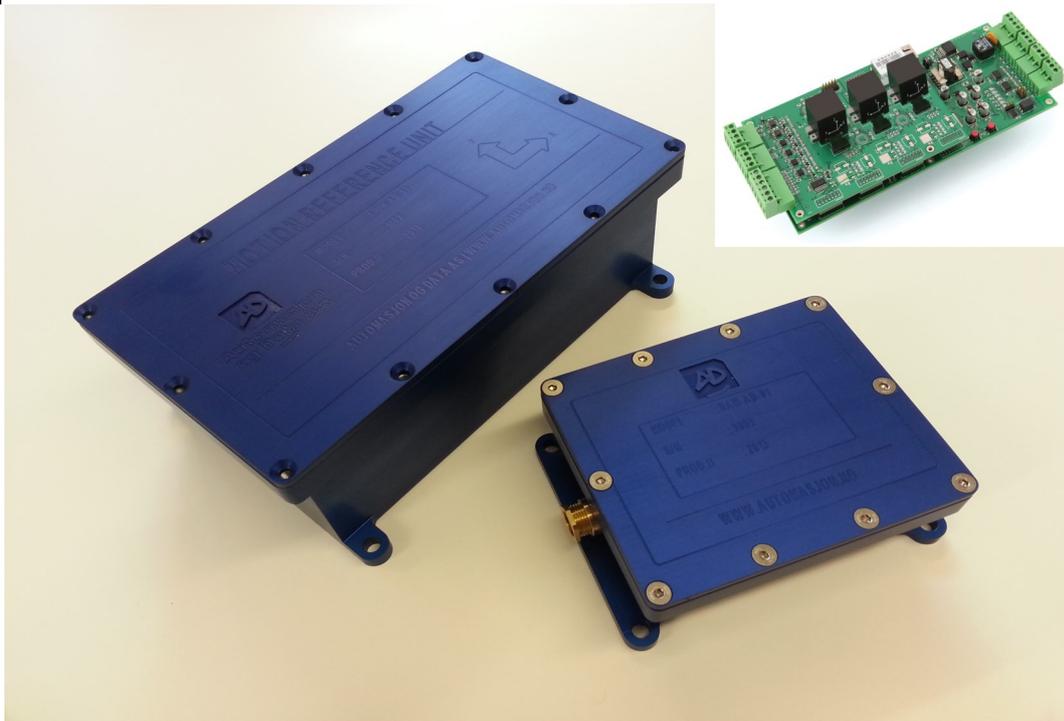
Adaptive Inertial Matrix (AIM) is a family of unique hardware and software product modules that can be adapted to special customer needs where required.

It can be delivered as a standard motion sensor package or it can be tailor-made to fit with customer specifications both for hardware and for software.

Up to 3 remote sensors can be connected to one main sensor unit in order to obtain remote measurements or to get spatial resolution for higher accuracies.

Wireless remote sensor will also be available shortly.

Encapsulations are available in hard-anodized aluminum. Other materials or configurations are available on request.



One main AIM unit with one remote motion sensor. Also available with two remote sensors.