

# Mini Motion Sensors from Xsens

Xsens will be exhibiting at Ocean Business 2011, Southampton (UK), on Stand D10. Xsens is manufacturer of MEMS-based motion sensors for use in sonar systems, ROVs and AUVs, USBL and ship motion detection.

Xsens' Motion Tracker series (MTi and MTi-G) are top of the line miniature motion sensors that have been the top-pick for integration in many innovative products by leading companies in the marine industry. These companies demand the highest quality and a stable supply chain and include Sonardyne, Evologics, Saab Underwater Systems, Applied Acoustics, Fugro, CodaOctopus, Kongsberg, Liquid Robotics and many others.

The RS422 interface allows for full-duplex communication over a cable length of up to 400 metres. Baud rates can be as low as 4800bps and as high as 921k6 bps, with update rates between 0Hz (polling) and 256Hz. Timing is important in any multi-sensor system. Therefore, Xsens' MTi and MTi-G can be used as the master sensor in an array of sensors that need to be synchronised. Next to many synchronisation options and timing possibilities, the MTi and MTi-G offer AnalogIn ports that can be used to sample analog sensors.

Because of the small physical footprint, onboard processing and configurable output options, the power-efficient MTi and MTi-G are flexible, easy to integrate motion sensors. The required communication bandwidth and computation power are extremely low, which allows for integration into any application. Example code is available for Linux, Windows and low-level communication.

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<https://www.hydro-international.com/content/news/mini-motion-sensors-from-xsens>

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