

MIROS WAVEX DOES IT BETTER: RELIABLE, REAL-TIME DATA AND SIGNIFICANT COST REDUCTIONS THANKS TO NEW SPEED THROUGH WATER FUNCTIONALITY



For more than 35 years, Miros has provided accurate, reliable ocean-monitoring systems to the maritime industry. Our expertise lies in measuring local environmental conditions and making the data accessible in real time, on- or offshore.

Wavex is a dry sensor that leverages X-band navigation radar technology for surface current measurements. The sensor delivers highly accurate real-time data undisturbed by air bubbles, turbulence or other interferences caused by vessel motion. Wavex does away with the time- and cost-related challenges of installing and maintaining underwater equipment and can be interfaced with existing marine X-band radar without any need for calibration.

The challenge of accurately measuring speed through water:

- Vessel and propeller motion, as well as air bubbles, cause disturbances that lead to "noisy" data
- Error-prone speed logs
- Having to rely on forecast data
- Fouling of underwater monitoring equipment
- High installation and maintenance costs related to submerged equipment
- Current methods lead to inaccurate input to ship performance optimisation systems
- Requires time-consuming calibration of submerged equipment.

Miros Wavex technology introduces the following benefits:

- More accurate measurements for input to ship performance optimisation systems
- Accurate, reliable data undisturbed by vessel motion and propellers
- More accurate current calculations when evaluating routes
- Significant fuel consumption savings
- No costs related to installation and maintenance of underwater equipment
- No need for calibration
- Wavex can be interfaced with existing X-band radar.



Miros' Cloud-based technology for wave and current monitoring gives you essential decision-making support, providing everyone involved in operations with access to real-time and historical data, anytime, anywhere, and to any device.

Miros Group has been a trusted provider of reliable wave and current measurements to some of the world's largest ship owners, operators and oil companies for more than 35 years.



"Miros Speed Through Water can decrease daily fuel consumption by tons of fuel for a single ship."

Rune Gangeskar, Senior Sensor Development Manager at Miros

