

Aanderaa 250 ADCP

A powerful tool for site surveys, aquaculture, research, ports and harbors, offshore energy, and environmental monitoring

We are pleased to introduce the first version of the Aanderaa 250 kHz Acoustic Doppler Current Profiler (ADCP)—a compact, medium-range instrument designed to deliver high-quality current measurements in coastal and nearshore environments. With its five-beam configuration and streamlined setup, it brings robust performance with minimal operational effort.

High-accuracy profiling with up to 150 Cells

This initial release provides high-accuracy current measurements and supports up to 150 layers, enabling detailed vertical profiling. Suitable for both fixed and mobile platforms, in a wide range of applications.

Integrated sensors and smart connectivity

The instrument includes built-in pressure, temperature, tilt, and magnetic heading sensors, along with 32 GB internal storage and Wi-Fi for easy configuration and data offload without opening. It is delivered as an autonomous, standalone sensor and can be powered either through an external supply or the optional Quick Swap Rechargeable Battery Pack. Familiar Aanderaa communication interfaces ensure smooth integration into existing workflows.

Operational intelligence built in

To ensure stable and trustworthy measurements, the 250 kHz ADCP incorporates advanced onboard intelligence:

- **MotionComp** corrects movement for every acoustic ping
- **FlexiColumn** delivers simultaneous surface- and instrument-referenced profiles
- **Smart Data** delivers vector-averaged currents and logs raw data
- **AutoBeam** maintains data quality when a beam encounters an obstruction

Expandable platform

The instrument can be connected to SeaGuardII or SmartGuard loggers, enabling expansion into a multiparameter observatory with support for additional measurements and third-party sensors.



MotionComp



FlexiColumn



Smart Data:



AutoBeam

Built on decades of reliability

Aanderaa has a long history of delivering robust DCPS instruments that provide dependable current measurements year after year. Building on this proven foundation, the Aanderaa 250 ADCP brings next-generation performance with stable, high-quality data in dynamic environments.