Teledyne RD Instruments

Workhorse NEMO

Real-Time Waves Processing Module

Processed, Real-Time ADCP/Waves Data

Now there's no reason to wait for your critical Teledyne RD Instruments waves data. Teledyne RDI's new NEMO Waves Processing Module actually processes your Waves data at the source, removing the typical constraints associated with transmitting this data to the surface.

The NEMO Waves Processing Module has been designed specifically for Teledyne RDI's Waves users. The self-contained unit is interfaced with your Workhorse ADCP Waves Array, where it quickly and efficiently processes real-time current-profiling and waves data. The result is a highly condensed data string suitable for transmission to the surface/shore via modem, radio telemetry, or direct cable—in report-ready format. This makes NEMO ideally suited for real-time applications, or periodic data QA/QC checks to confirm your long-term data quality.

Now you can collect and view your real-time waves data—at any time, any place—at your convenience!
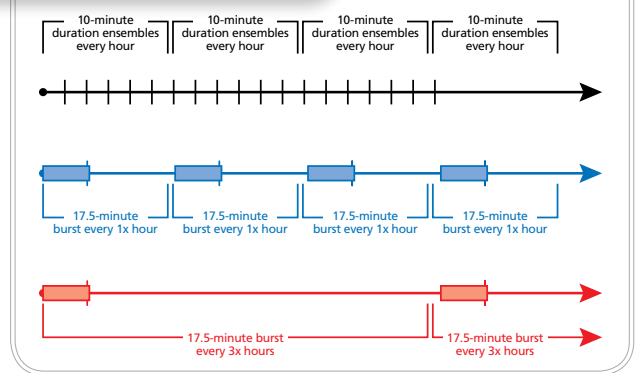
PRODUCT FEATURES

- **Processed real-time ADCP/Waves data when and where you need it.** NEMO's real-time ADCP/Waves data processing capability provides condensed data packets for speedy transmission to the surface or shore via an acoustic modem or hard wire link.

- **Low power—extended deployment.** NEMO's low power consumption allows for longer deployment and reduced lifetime maintenance cost.

- **Easy to configure—easy to operate.** NEMO has been designed with the user in mind. The software provides an easy setup and operation.

- **Flexible design—turnkey solution.** NEMO's flexible design allows for operation with Teledyne RDI's Waves Array option as a self-contained instrument, or integrated into your Workhorse end-cap.

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A Teledyne Marine Company

Workhorse NEMO
Real-Time Waves Processing Module

TECHNICAL SPECIFICATIONS

Power

Standard battery capacity	450Wh @ 42V
NEMO "ON" current:	68mA
NEMO "OFF" current:	1.0mA

Typical NEMO sampling durations:

1. Waves once per hour (17.5-minute burst) with a current profile every 10 mins. Deployment duration using (1) 42VDC alkaline battery pack = 110 days.
2. Waves once every 3 hours (17.5-minute burst) with a current profile every 10 mins. Deployment duration using (1) 42VDC alkaline battery pack = 181 days.

Typical Waves Deployment Depths

WHSW1200:	Depth 10m
WHSW600:	Depth 30m
WHSW300:	Depth 50m
Max depth rating:	200m

Data Communications

NEMO to ADCP:	57600 Baud
NEMO to modem:	9600 Baud
Interface:	RS-232, RS-422, BB Talk
Data input:	ADCP Waves Array
Data output:	ADCII Data

Configuration Options

- NEMO Stand-Alone with internal battery
- NEMO Integrated in Workhorse ADCP (benefit: WH and NEMO electronics installed in same pressure case; may be used with separate external battery or external power)

Third-Party Options

- Acoustic Modem
- Inductive Modem
- Acoustic Modem Telemetry Buoy

Dimensions/Weight

NEMO Stand-Alone:	Dimensions:	362mm x 203mm
	Weight:	9.54kg
NEMO Integrated:	Dimensions:	405.5mm x 203mm
	Weight:	9.18kg

(line drawings available upon request)

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