

# Benefits of the Recording Doppler Current Profiler RDCP 600

1. Windows CETM operating system makes the setup extremely easy. It enables inexperienced personnel to configure the instrument. Program includes On-line Checking Routines to insure configuration settings are within operational limits. On-line checking during programming protects hardware and more importantly customers' measurement protocol to achieve greater flexibility and product simplicity, i.e. improved fault tolerance.
2. A dedicated wizard guides the user through the different settings in the proper sequence.
3. The color LCD display on the instrument provides full access to all on-board programs eliminates the need to bring additional equipment or a PC to the field during deployment.
4. Internal sub-routines calculate the deployment time, based on the programmed deployment settings.
5. Windows CETM is a known and familiar GUI so you do not have to learn a new operating system.
6. Data is stored on either a standard MMC cards, or compact flash card, with capacity of up to 2Gb (CP flash). Such memory cards can be purchased at nearly any computer or photo shops.
7. All data is processed on-board the RDCP 600 immediately after each sampling period (number of pings in single sample) and resulting products to save to on-board storage or for real-time output are individually selected.
8. Stored data does not require any processing time after downloading to your computer. Data product is immediately available for viewing and further analysis.
9. A unique data reading program RDCP Studio is included (free-of-charge) with the RDCP 600, with a large number of analysis and graphic modules. An excellent tool to analyze your recorded data. (A demo-version of this program is available with sample data sets included).
10. A dedicated surface cell is available on the RDCP 600, which enable the user to achieve better accuracy in surface current measurement.
11. Cell overlaps are available on the RDCP 600, enables the user to program the unit for higher vertical water column resolution than traditional acoustic current profilers. Also an advantage to get higher quality data in the surface layer.
12. Multiple column profiles of differing cell size can be handled (programmed) by the RDCP 600. The acoustic profile/sample can be used by the RDCP 600 in parts where for example a large number of closely spaced cells are located over a specified depth range, and a fewer number of larger cells cover the full water column. This use of the full acoustic profile by multiple column profiles is made available so the instrument does not execute more measurements than necessary, in order to save battery power.
13. A column of cells (current measurements) can also be referred to the sea surface instead of the instrument as in traditional acoustic Doppler profilers. This is a great advantage if you need to get information of the current referred to/following the water surface. The column when surface referenced will be adjusted/follow the tide or water level.
14. The RDCP 600 can be programmed to measure both surface reference and instrument-referenced cells in the same sample period.
15. The RDCP 600 uses the same electronic principals used in our proven RCM 9 MkII and RCM 11 single point current measurement products. These two units are world market leaders and are widely considered to have the best accuracy, performance, and reliability.
16. Other submersible sensors can be installed on the RDCP 600 making it a multi-parameter and multi-function platform. High accuracy and resolution pressure sensors provides full wave and tide measurement capability. Water quality sensors like turbidity, conductivity and oxygen sensors provide stable environmental data collection. Data stored in the on-board memory card together with all other measurements made by the RDCP 600. These parameters can also be transmitted and presented in Real-Time.
17. All Aanderaa products are delivered with a 2-year warranty.
18. The RDCP 600 is designed and manufactured completely by Aanderaa Data Instruments, Bergen, NORWAY.

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