



Valeport Water Sampler



This Application Note describes the use of the Valeport MIDAS CTD+ with optional Water Bottle Sampler

The MIDAS CTD+ is a powerful multi-parameter logger, but as well as the array of optional additional sensors that can be fitted, it can also be supplied with Valeport's own water bottle trigger system.

The water sampling system consists of 4 main components, in addition to the MIDAS CTD+ itself:

- Sample Bottles, up to 12 of either 1.7litre or 2.5litre
- Trigger mechanism, motor driven and pressure balanced for deep water operations
- Deployment frame, which holds all sample bottles, the trigger mechanism and the MIDAS CTD+
- Interface circuit, fitted inside the MIDAS CTD+

Samples are triggered by the MIDAS CTD+, either by a programmed release interval (time or pressure), or by manual command given through the DataLog 400 Windows based PC software supplied.

When triggered, the motor rotates through a release mechanism, causing the sample to be taken. At the same time, the MIDAS CTD+ records the event as it would any parameter in its sensor suite. Precise control of the motor position is maintained through the use of optical switches, ensuring that samples are not triggered prematurely.

The MIDAS CTD+ is available in a 6000m titanium housing (illustrated) or in a 500m plastic version. The motor trigger system is pressure balanced for operation at similar depths.

Diameter: 98cm (12 bottles)
58cm (6 bottles)

Height: 112cm

Weight: 40kg (approx)