



# miniCTD Profiler

The miniCTD has been developed to provide a cost effective tool for the collection of CTD profiles, without compromising the quality of the data. Ideally suited to ROV, coastal, or small boat applications, the miniCTD will appeal to survey companies, military and academia alike, being both simple to use and easy to handle.

## DATA SHEET

### Product Details



CTD



SOUND  
SPEED



DATALOG  
X2 SOFTWARE

**Valeport Limited**  
St. Peter's Quay, Totnes,  
Devon TQ9 5EW United Kingdom

Telephone: +44 (0) 1803 869292  
Email: [sales@valeport.co.uk](mailto:sales@valeport.co.uk)  
[www.valeport.co.uk](http://www.valeport.co.uk)



## Sensors

The miniCTD is fitted with Valeport's unique digital, high stability conductivity sensor, a PRT temperature sensor, and strain gauge pressure transducer. In addition to the measured parameters listed, Salinity and Density values are also calculated by the software.

### Conductivity

**Range** 0 - 80 mS/cm

**Resolution** 0.001mS/cm

**Accuracy** ±0.01mS/cm

### Temperature

**Range** -5°C - +35°C

**Resolution** 0.001°C

**Accuracy** ±0.01°C

### Pressure

**Range** 5, 10, 20, 30, 50, 100, 200, 300 or 600 Bar

**Resolution** 0.001% range

**Accuracy** ±0.05% range

## Data Acquisition

Features a selection of pre-programmed sampling regimes, covering many standard applications. Data may be sampled from 1 to 8Hz, making it suitable for rapid profiling or for continuous measurement at a fixed point

## Sampling Modes

**Continuous** Regular output from all sensors at 1, 2, 4 or 8Hz

**Profile** Logs data as the device falls (or rises) by a defined amount through the water column

## Communications

Operates autonomously, with setup and data extraction performed by direct communications with PC. Also operates in real time, with a choice of communication protocols fitted as standard and selected by pin choice on the output connector:

**RS232** Up to 200m cable, direct to serial port

**RS485** Up to 1000m cable

**Baud Rate** 38400 - 460800

**Protocol** 8 data bits, 1 stop bit, No parity, No flow control

## Memory

Fitted with a solid-state, non-volatile Flash memory, storing over 10 million lines of data (equivalent to 10,000 profiles to 500m at 1m profile resolution).

## Electrical

**Internal** 1x C cell, 1.5V alkaline or 3.6V lithium

**External** 9 – 28V DC

**Power** <250mW

**Battery Life** ~30 hrs (alkaline) | ~90 hrs (lithium)

**Connector** SubConn MCBH10F

## Physical

**Materials** Titanium housing (as ordered), Polyurethane and ceramic sensor components Stainless steel (316) deployment cage

**Depth Rating** 6000m (Titanium)  
Note: Maximum deployment depth may be limited by transducer range

**Instrument Size** Main Housing 48mmØ  
Sensor Body 54mmØ  
Length 370mm (including connector)

**Deployment Cage** 110mmØ x 450mm long

**Weight** 1.8kg (Titanium)

**Shipping** 51 x 42 x 27cm, 10kg

## Software

Supplied with DataLog X2 PC software, for instrument setup, data extraction and display. DataLog Express is licence free.

## Ordering

**0660004-XX** miniCTD Profiler in Titanium  
Supplied with:  
· Deployment frame  
· Switch plug  
· 3m comms lead  
· DataLog x2 software  
· Manual and transit case

**Note:** XX denotes pressure transducer range  
Select from 5, 10, 20, 50, 100, 200, 300 or 600 Bar

## Datasheet Reference: miniCTD Profiler | April 2020

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