



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 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
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 | February 2021

As part of our policy of continuing development, Valeport Ltd. reserve the right to alter at any time, without notice, all prices, specifications, designs and conditions of sale of all equipment - Valeport Ltd © 2021

