



miniCTD DR - Direct Reading CTD

The miniCTD – DR is an adaptation of the miniCTD. It has been optimised for ROV operations with a direct reading interface only and no internal battery or logging capability.

It provides a simple, cost effective tool for the collection of CTD Profiles, without compromising the quality of the data.

DATA SHEET

Product Details



MULTI-PARAMETER
CTD



DATALOG
X2 SOFTWARE

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Sensors

The miniCTD - DR 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, 400 or 600 Bar.
Depending upon model

Resolution 0.001% range

Accuracy + -0.01% or + -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 Outputs 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

Electrical

External 9 – 28V DC

Power <250mW

Connector SubConn MCBH10F

Software

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

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

Ordering

0660024-XX Direct Reading miniCTD – Titanium, 6000m rated
Fitted with:
· Pressure Balanced Conductivity cell
· 0.01%FS pressure sensor and PRT sensor
Supplied with: Deployment Frame, Pigtail / Interface lead,
Operating Manual and system Transit Case

Note XX denotes pressure transducer range.
Select from 10, 20, 30, 50, 100, 200, 300, 400 or 600 Bar.

0660037-XX Direct Reading miniCTD – Titanium, 6000m rated
Fitted with:
· Pressure Balanced Conductivity cell
· 0.05%FS pressure sensor and PRT sensor
Supplied with: Deployment Frame, Pigtail / Interface lead,
Operating Manual and system Transit Case

Note XX denotes pressure transducer range.
Select from 5, 10, 20, 30, 50, 100, 200, 300 or 600 Bar.

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