



RapidPro CTD & RapidPro CTDplus

The rapidPro CTD has been developed for the rapid collection of conductivity, temperature (Thermistor) and depth without compromising the quality of the data. Now further developed with a new optimised shape and removable ProLogger module that combines a rechargeable lithium ion battery, data logger, GPS receiver and Bluetooth comms.

The rapidPro CTDplus gives access to a number of optical sensor parameters based on the Hyperion range in addition to CTD.

Optionally, the rapidPro CTD is designed to operate with the Teledyne OceanScience rapidCAST underway profiling winch to deliver the highest quality CTD and optional optical parameter casts on the move. While the vessel is underway profiles of up to 450m at 6 knots are expected.

DATA SHEET

Product Details



MULTI-PARAMETER CTD



SOUND SPEED



OPTICAL



CONNECT SOFTWARE



Bluetooth



USB



Rechargeable Battery



GPS

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



Sensor Specifications

Conductivity

Range 0 - 80 mS/cm

Resolution 0.001 mS/cm

Accuracy ±0.01 mS/cm

Response 31.25 milliseconds

Pressure

Range 100 or 200 Bar

Resolution 0.001% range

Accuracy ±0.01% range

Response 31.25 millisecond

Temperature - Thermistor

Range -5°C - +35°C

Resolution 0.001°C

Accuracy ±0.01°C

Response 50 milliseconds

Optical Sensor Options - rapidPro CTDplus

Chlorophyll a 0-800 µg/l
2 gain settings: 0-40, 0-800

Fluorescein 0-500 ppb
2 gain settings: 0-25, 0-500

Rhodamine 0-1000 ppb
2 gain settings, 0-50, 0-1000

Turbidity 0 to > 6,000 NTU linear response
Using nephelometric and OBS techniques

Communications

Through the ProLogger an integral Bluetooth module for configuration & data recovery also, when removed from the rapidPro housing USB comms directly to PC.

Memory

The rapidPro CTD is fitted with an SD memory card with more than sufficient capacity.

Electrical

Battery Rechargeable Lithium Ion battery module

Battery Life* CTD: approximately 20 hours continuous operation
CTDplus: approximately 14 hours continuous operation

*battery consumption estimates are based on a fully charged battery pack, recording down casts only at 1Hz observation period .

Physical

Materials Titanium/PEEK housing
Polyurethane and Ceramic sensor components
Titanium & composite sensor components

Depth Rating 2000m

Instrument Size Ø62mm x Length 605mm

Weight 4.5kg (in air)

Software

The system is supplied with Valeport Connect PC software, for instrument setup, data extraction and display.
Valeport Connect PC software is licence free.

Ordering

0660045-XX rapidPro CTD

rapidPro CTDplus:

0660045FC-XX Chlorophyll a Fluorometer

0660045FF-XX Fluorescein (Uranine) Fluorometer

0660045FR-XX Rhodamine Fluorometer

0660045FT-XX Turbidity Sensor

Where XX pressure transducer range
select from 100 or 200 Bar

Supplied with

- 1x ProLogger module
- 2x switch keys
- Bluetooth module with external antenna and cable
- Tool kit
- Valeport Connect PC software
- Operating manual and system transit case