





RapidPro CTD & RapidPro CTDplus

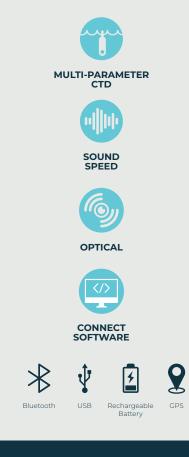
The rapidPro CTD has been developed for the rapid collection of conductivity, temperature (Thermistor) and depth without compromising the quality of the data. Now further developed with an new optimised shape and removable ProLogger module that combines a rechargeable lithium ion battery, data logger,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



Valeport Limited St. Peter's Quay, Totnes,

eter's Quay, Totnes, n 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

arged battery p 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

Datasheet Reference: rapidPro CTD and rapidPro CTDplus | April 2020

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 © 2020

