

# rapidPro CTD and 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 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.

## 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 to +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



rapid Profiler with Teledyne rapidCAST Underway Profiling Winch



rapidPro CTD with integral ProLogger module



#### 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:	in excess of 12 hours continuous operation from a fully charged pack*	
*battery consumption estimates are based on recording down casts only at 8Hz observation period and no optical sensor.		
Physical		
Materials:	Titanium/PEEK housing	

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	Polyurethane and Ceramic sensor components
	Titanium & composite sensor components
Depth Rating:	2000m
Instrument Size:	Ø62mm x Length 605mm
Weight:	4.5kg (in air)

### Software

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

Valeport Connect PC software is license 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:	<ul> <li>1x ProLogger module</li> <li>2x switch keys</li> <li>Bluetooth module with external antenna and cable</li> <li>Tool kit</li> <li>Valeport Connect PC software</li> <li>Operating manual and system transit case</li> </ul>

Datasheet Reference: rapidPro CTD Profiler | December 2018

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