



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



**MULTI-PARAMETER
CTD**



**SOUND
SPEED**



OPTICAL



**CONNECT
SOFTWARE**



Bluetooth



USB



Rechargeable
Battery



GPS

TAE KWANG ELECTRONICS CORPORATION
5TH FLR., K-BLDG., 3, SANGAM-RO 41GIL,
GANGDONG-GU, SEOUL 05307, KOREA

PHONE : 02 479 2703
FAX : 02 479 2705
e-mail : taekwang@tkec.co.kr
Website: www.tkec.co.kr



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
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Battery Life*	CTD: approximately 20 hours continuous operation CTDplus: approximately 14 hours continuous operation
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*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
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Depth Rating	2000m
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Instrument Size	Ø62mm x Length 605mm
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Weight	4.5kg (in air)
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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
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0660045FC-XX	rapidPro CTDplus:
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0660045FF-XX	Chlorophyll a Fluorometer
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0660045FR-XX	Fluorescein (Uranine) Fluorometer
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0660045FT-XX	Rhodamine Fluorometer
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0660045FT-XX	Turbidity Sensor
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Where	XX pressure transducer range select from 100 or 200 Bar
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Supplied with	<ul style="list-style-type: none"> • 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
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