





fastCTDplus Rhodamine

Fast response multi-parameter profiler

An evolution of the miniCTD, the fastCTDplus multi-parameter profiler is designed to deliver the highest quality CTD and Rhodamine observations at fast drop rates.

A conductivity cell designed for optimum flow-through, a fast-response thermistor temperature sensor and 0.01% pressure sensor together with a Fluorometer sensor, all synchronously sampling at up to 32Hz to deliver the highest quality profiles in a lightweight and robust package.

- Multi-parameter profiler
 - CTD, Salinity, Density, Sound Velocity
 - Rhodamine sensor
 - Up to 32Hz sampling rate
- Optional Bluetooth connectivity
- Depth rated to 6,000m
- Dedicated PC software

DATA SHEET

Product Details



MULTI-PARAMETER CTD



SOUND



DATALOG X2 SOFTWARE





Sensors		
Rhodamine*		
Excitation	520nm	
Detection	650 nm	
Dynamic Range	0-1,000 ppb 2 gain settings: 0-25, 0-1,000 software controlled	
Minimum Detection (3x SD in RO water)	<0.01 ppb	
Linearity	0.99 R ²	
Response Time	0.03 - 2 sec	
Output Rate	0.5 Hz - 32 Hz (free running) software controlled	
Conductivity	,	
Range	0-80 mS/cm	
Resolution	0.001 mS/cm	
Accuracy	±0.01 mS/cm	
Response	30 milliseconds	
Temperature		
Range	-5 °C - +35 °C	
Resolution	0.001 °C	
Accuracy	±0.01 °C	
Response	50 milliseconds (T1)	
Pressure		
Range	10, 20, 30, 50, 100, 200, 300, 400 & 600 bar	
Resolution	0.001% full scale	
Accuracy	±0.01% full scale	
Response	1 millisecond	
Electrical		
Internal	1 x D Cell 1.5V Alkaline or 3.6V Lithium	
External	if fitted with a connector 9-28V DC isolated	
Power	<250mW	
Connector	SubConn MCBH10F (iffitted)	
Physical		
Materials	Titanium housing Sapphire glass optical window	
Depth Rating	6,000m	

Sampling Modes		
Continuous	Regular and synchronous data collection from all sensors up to 32Hz.	
Profile	Data is logged as the instrument descends (or rises), by a user defined pressure difference, through the water column.	
Rapid	Once the instrument is set to run mode no data is logged until a programmed trigger depth is reached (e.g. 2 meters below the surface).	
	Completely programmable, the device can be set to record down casts data only, for example, when the probe stops	

descending and rises by a defined amount logging is stopped.

Communications

The instrument is designed to operate autonomously. Setup and data extraction can be performed using a SubConn connector or via an optional Bluetooth connection with a PC. Multiple profiles can be recorded in the instrument by switching it on then off using the connector switch plug or magnetic switch key for Bluetooth operation. The instrument can also operate in real time or cabled comms

Bluetooth auto-pairing and discovery make connecting to the instrument simple and robust.

Direct	Read	ina

RS232	Up to 200m of cable	
Baud Rate	38400 to 460800	
Protocol	8 data bits, 1 stop bit, no parity, no flow control	

Memory

Solid state non-volatile Flash memory

Capacity 10 million lines of data

(equivalent to 5,000 profiles to 1,000m wih a 1m profile resolution)

Software

Supplied with DataLog X2 Windows based software, for instrument setup, control, data extraction and display.

Ordering

Titanium Housing

0660036T1-FR-XX	fastCTDplus Rhodamine Profiler 6,000m with connector
0660036T1-FR-BT-XX	fastCTDplus Rhodamine Profiler 2,000m with Bluetooth
Where	

XX	Pressure sensor options	
	10, 20, 30, 50, 100, 200, 300, 400 & 600 Bar	

* Calibrated against Fluorescein\Rhodamine solution

Datasheet Reference: fastCTDplus Rhodamine | April 2020

1.5kg

ø54mm x 510mm

2.6kg / 4.9kg including frame

Instrument Size

Weight in water

Weight in air



