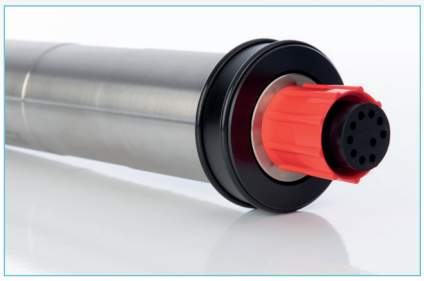

fastCTD Profiler

Fast response CTD profiler

An evolution of the miniCTD, the fastCTD Profiler is designed to deliver the highest quality CTD casts at fast drop rates. A conductivity cell designed for optimum flow-through, a fast-response thermistor temperature sensor and a 0.01% pressure sensor synchronously sampling at up to 32Hz deliver the highest quality profiles in a lightweight and robust package.

Add in an integral Turbidity or Fluorometer based on Valeport's new Hyperion range, an optional Bluetooth communications module and the fastCTD Profiler offers a unique and versatile solution.

DATA SHEET

Product Details

MULTI-PARAMETER CTD

SOUND SPEED

X2 SOFTWARE

Bluetooth Option

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VALEPORT

Sensors

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

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 (if fitted)

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.

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

The instrument can also operate in real time or cabled comms. Supplied with a traditional SubConn connector with a choice of communication protocols fitted as standard and selected by pin choice on the output connector.

Direct Reading

RS232	Up to 200m of cable
Baud Rate	38400 to 460800
Bluetooth	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 with a 1m profile resolution)

Physical

Materials	Titanium housing
Depth Rating	6000m
Instrument Size	ø54mm x 510mm
Weight in air	2.6kg / 4.9kg including frame
Weight in water	1.5kg

Software

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

Ordering

Titanium Housing

0660036T1-XX	fastCTD Profiler 6000m with connector
0660036T1-BT-XX	fastCTD Profiler 2000m with Bluetooth

Where

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

Datasheet Reference: fastCTD | April 2020

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