



SWiFTplus Chlorophyll a

Multi-parameter profiler

Valeport's SWiFTplus Multi-Parameter Profiler with a Chlorophyll a sensor combines survey-grade sound speed, temperature and pressure sensor technology with Fluorometer observations. The package is completed with the convenience of Bluetooth connectivity, rechargeable battery and an integral GPS module to geo-locate each profile.

- Multi-Parameter Profiler
 - CTD, Sound Speed, Salinity, Density
 - Chlorophyll a sensor
 - Up to 32Hz sampling rate
- Bluetooth and USB connectivity
- Integral GPS receiver for geo-location of profile
- Rechargeable Lithium-ion Battery
- Dedicated PC software and iOS portable device App

Product Details



MULTI-PARAMETER CTD





OPTICAL



CONNECT SOFTWARE

















Valeport's Hyperion Fluorometer sensor range, when combined with SWiFT, delivers high performance measurements of Chlorophyll a in a compact & robust package.

Sensor Specification	
Chlorophyll a*	
Excitation	470 nm
Detection	696 nm
Dynamic Range	O-800 μg/l 2 gain settings: 0-40, 0-800 software controlled
Minimum Detection (3x SD in RO water)	0.025 µg/l
Linearity	0.99 R ²
Response Time	0.03 to 2 sec
Output Rate	0.5 Hz to 32 Hz (free running) software controlled
Conductivity#	
Range	0 - 80 mS/cm
Resolution	0.001 mS/cm
Accuracy	±0.05 mS/cm
Temperature	(Platinum Resistance Thermomete
Range	-5°C to +35°C
Resolution	0.001°C
Accuracy	±0.01°C
Pressure (Temperatu	
Range	10 Bar or 20 Bar
Resolution	0.001% FS
Accuracy	±0.05% FS
Sound Velocity	(Digital time of flight senso
Range	1375 – 1900 m/s
Resolution	0.001 m/s
Accuracy	±0.02 m/s
Salinity#	
Range	0 - 42 PSU
Resolution	0.001 PSU
Accuracy	±0.05 PSU
Density#	
Range	990 - 1035 kg/m³
Resolution	0.001 kg/m³

Physical dimensions	5
Materials	Housing: Titanium
	Sinker weight: Stainless steel
	Optical window: Sapphire glass
Depth rating	200m
Dimensions	Ø78mm x Length 307mm (with sinker weight)
Weight	2.7kg (in air) / 1.7kg (in water) including optional sinker weight

Communications (set-up and data offload)

Bluetooth v4 - low energy

USB Serial

Memory

2 GB Internal Flash Card Storage

Electrical	
Battery	Internal rechargeable Li-ion battery pack
Charging	USB - Supplied mains AC adapter

Software

- Connect iOS for Bluetooth compatible mobile devices:
- instrument set-up, data offload and data display
- · Connect PC for both USB and Bluetooth connectivity:
- instrument set-up, data offload and data display
- Both will export data in common file formats that are compatible with industry standard Hydrographic software packages
- Android App to follow

Ordering	
0660047-10-FC	SWiFTplus profiler with Chlorophyll a sensor - 100m rated
0660047-20-FC	SWiFTplus profiler with Chlorophyll a sensor - 200m rated
	Supplied with: Deployment weight PC Bluetooth adapter USB interface and charging cable and charger Valeport Connect PC software \ iOS App Transit Case

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Datasheet Reference: SWiFTplus Chlorophyll a Profiler | April 2019 |



^{*}Calibrated against Chlorophyll a in acetone solution.

#Calculated Accuracies. Calculations based on Valeport's proprietary DASH formula.