



SWiFTplus Fluorescein

Multi-parameter profiler

Valeport's SWiFTplus Multi-Parameter Profiler with a Fluorescein 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
 - Up to 32Hz sampling rate
 - Fluorescein sensor
- Bluetooth and USB connectivity
- Integral GPS receiver for geo-location of profile and time synchronisation
- Rechargeable Lithium-ion Battery
- Dedicated PC software and iOS portable device App

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

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 Specification

Fluorescein*

Excitation	470 nm
Detection	545 nm
Dynamic Range	0-500 ppb 2 gain settings: 0-25, 0-500 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	±0.05 mS/cm

Temperature (Platinum Resistance Thermometer)

Range	-5°C - +35°C
Resolution	0.001°C
Accuracy	±0.01°C

Pressure (Temperature compensated piezo-resistive pressure transducer)

Range	50 Bar
Resolution	0.001% FS
Accuracy	±0.01% FS

Sound Velocity (Digital time of flight sensor)

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/m ³
Resolution	0.001 kg/m ³
Accuracy	±0.05 kg/m ³

*Calibrated against Fluorescein/Rhodamine solution.
#Calculated Accuracies. Calculations based on Valeport's proprietary DASH formula.

Physical dimensions

Materials	Housing: Titanium Sinkers weight: Stainless steel Optical window: Sapphire glass
Depth rating	500m
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

Electrical

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

Software

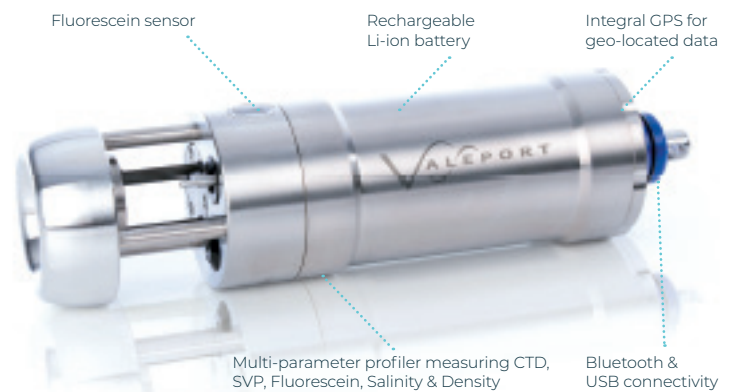
- Connect iOS for Bluetooth compatible mobile devices:
 - instrument set-up, data offload and data display
- Connect PC for both USB and Bluetooth connectivity:
 - instrument set-up, data offload and data display
- Both will export data in common file formats that are compatible with industry standard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

Ordering

0660047-50-FF	SWIFTplus profiler with Fluorescein sensor - 500m rated
----------------------	---

Supplied with:

- Deployment weight
- PC Bluetooth adapter
- USB interface and charging cable and charger
- Valeport Connect PC software \ iOS App
- Transit Case



Datasheet Reference: SWIFTplus Fluorescein | April 2020

As part of our policy of continuing development, Valeport Ltd. reserve the right to alter at any time, without notice, all prices, specifications, designs and conditions of sale of all equipment - Valeport Ltd © 2020

