

SWiFT SVP

Sound Velocity Profiler



Designed from the outset with the intention of a seamless workflow, the SWiFT SVP profiler provides survey-grade sensor technology coupled with the convenience of Bluetooth® wireless technology and rechargeable batteries. An integral GNSS module, to geo-locate each profile, completes the package. Data can be easily and quickly downloaded and reviewed wirelessly via Bluetooth connectivity using Valeport's Ocean software for Windows, iOS or Android. Data can be instantly shared, in industry standard data formats through email and cloud services. A USB Cable and Bluetooth adapter are provided.

In addition to the directly measured sound speed, temperature and pressure observations, Conductivity, Salinity and Density are calculated using Valeport's proprietary algorithm developed from extensive laboratory and field work.

With a large internal Lithium-ion rechargeable battery and the convenience of charging via USB, SWiFT SVP is intended for coastal, harbour and inland hydrographic survey use and offers the highest quality sound velocity profiles in a compact, robust and portable package. Optionally, the supplied deployment weight is available to bolt onto the sensor protection cage to help get the SWiFT SVP to depth in fast-flowing currents.

Specifications

Product	SWiFT SVP
Country of origin	UK
Manufacturer	Valeport Limited
Materials	Titanium Stainless Steel deployment

Electrical

Battery	Internal rechargeable Li-ion battery pack
Charging	USB Typically, 1 hour fast charge will give 12 hours operation
Battery life	100 days endurance 5 profiles per day to 100 m* 70 days endurance 3 profiles per day to 500 m* 5 days continuous running (normal power mode)

Sound velocity

Range	1,375-1,900 m/s
Resolution	0.001 m/s
Accuracy	±0.02 m/s

Pressure

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

Temperature

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

Calculated parameters and accuracy

Conductivity	±0.05 mS/cm
Salinity	±0.05 PSU
Density	±0.05 kg/m ³

Physical

Depth rating	500 m
Dimensions	ø78 mm x Length 264 mm
Weight	2.0 kg (in air) / 0.9 kg (in water) 3.0 kg (in air) / 1.8 kg (in water) with deployment weight