



Hyperion Chlorophyll a

Valeport's Hyperion Chlorophyll a sensor delivers high performance measurements of Chlorophyll a in a compact & robust package ideal as a standalone sensor, for ROV and AUV integration or used as part of a multi-sensor array and data logger.

Offered as standard in a 6,000m depth rated, titanium housing the Hyperion Fluorometer has a wide range (9-28V DC) isolated power supply, data output up to 16Hz and RS232, RS485 and Modbus RTU communication protocols. Hyperion offers an industry leading dynamic range with no adjustment of gain settings required.

Hyperion Fluorometers can be supplied with a sensor guard to protect the optical window from physical damage and a Kevlar weave protected cable.

DATA SHEET

Product Details



OPTICAL



VALEPORT CONFIGURE
SOFTWARE

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Sensor Specification Chlorophyll a*

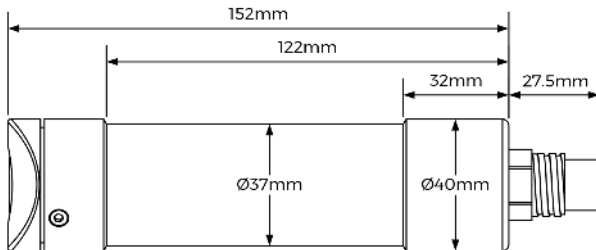
Excitation	470 nm
Detection	696 nm
Dynamic Range	0-800 µg/l
Minimum Detection (3x SD in RO water)	0.025 µg/l
Linearity	0.99 R ²
Response Time	0.03 - 2 sec
Output Rate	0.5 Hz to 16 Hz (free running) software controlled

* Calibrated against Chlorophyll a in acetone solution

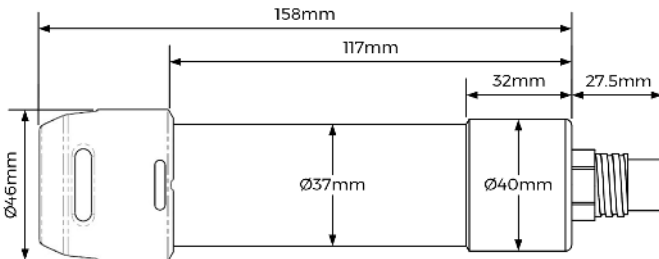
Physical

Materials	Titanium with glass window
Depth Rating	6,000m
Dimensions	40mmØ x 179.5mm (including connector)
Weight	0.50 kg (in air) 0.26 kg (in water)
Operating Temperature	-5°C to 35°C (the sensor is damaged above 60°C)

Dimensions - Standard Hyperion



Dimensions - with optional Sensor Guard



Electrical

External	9 – 28V DC Isolated
Power	<600mW
Connector	SubConn MCBH6F

Communications

The instrument will operate in real time, with set up performed by direct communications with a PC before deployment.

RS232 RS485	2400 - 230400 baud rate 8 data bits 1 stop bit No Parity No Flow Control
USB	Supplied cable and converter (RS232 to USB)
Modbus RTU (standard)	19200 baud rate 8 data bits 1 stop bit Even Parity No Flow Control

Software

Valeport Configure software is supplied
Windows 10 software for instrument setup

Ordering

0901001 - C	Hyperion Chlorophyll a instrument Supplied with: • Y lead • Manual and transit case • Valeport Configure Software
0901EA2	Hyperion to EnviroLog System interface cable various lengths available
0901251	Sensor Guard

Datasheet Reference: Hyperion Chlorophyll a | October 2023

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