



Hyperion Rhodamine

Valeport's Hyperion Fluorometer sensor range delivers high performance measurements of Chlorophyll a, Phycocyanin, Fluorescein (Uranine), or Rhodamine in a compact & robust package ideal as a standalone sensor, for ROV and AUV integration or used with as part of a multi-sensor array and data logger.

Offered as standard in a 6000m depth rated, titanium housing the Hyperion Fluorometer has a wide range (9-28V DC) isolated power supply, data output up to 32Hz and RS232, RS485 and Modbus communications.

Hyperion Fluorometers can be supplied in a more rugged form that includes Acetal protection rings, a shaped anti-s snag connector cover and a Kevlar weave protected cable.

DATA SHEET

Product Details



OPTICAL



DATALOG X2
& ENVIROLOG
SOFTWARE

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	Rhodamine*
Excitation	520 nm
Detection	650 nm
Dynamic Range: gain setting is software controlled	0-1 000 ppb 2 gain settings: 0-50, 0-1 000
Minimum Detection (3x SD in RO water)	0.01 ppb
Linearity	0.99 R2
Response Time	0.03 - 2 sec
Output Rate	0.5 Hz - 32 Hz (free running) software controlled

* Calibrated against Fluorescein/Rhodamine solution

Communications

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

RS232	Up to 200m cable Direct to serial port via USB adapter
Baud Rate	2400 - 115200
Protocol	8 data bits, 1 stop bit, No parity, No flow control

Electrical

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

Software

Valeport supply DataLog x2 Windows software for instrument setup, data download and display

Physical

Materials	Titanium with Sapphire 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 Temp	-5°C to 35°C (the sensor is damaged above 60°C)

Ordering

0901001 - R	Rhodamine
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Supplied with:
 · 1x Hyperion Instrument
 · 1x 0.5m pig tail
 · Manual and transit case
 · DataLog x2 Software

Datasheet Reference: Hyperion Fluorometer | April 2020

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