



Hyperion Rhodamine

Valeport's Hyperion Rhodamine sensor delivers high performance measurements of Rhodamine 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 in a more rugged form that includes Acetal protection rings, a shaped anti-snag connector cover and a Kevlar weave protected cable.

DATA SHEET

Product Details





VALEPORT CONFIGURE SOFTWARE

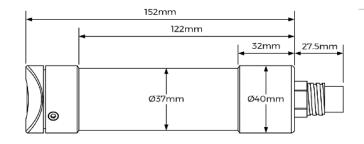


Sensor Specification Rhodamine* Excitation 520 nm Detection 650 nm **Dynamic Range** 0-1 000 ppb 0.01 ppb **Minimum Detection** (3x SD in RO water) Linearity 0.99 R² **Response Time** 0.03 - 2 sec **Output Rate** 0.5 Hz to 16 Hz software controlled

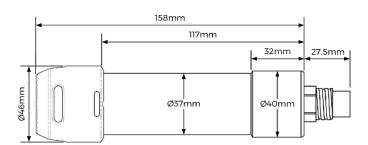
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* Calibrated	adainst	Rhodamine	W I solution	of varving	concentrations

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

<600mW Power SubConn MCBH6F

Communications

Connector

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)

RS485 Modbus RTU 19200 baud rate

(standard) 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 - R Hyperion Fluorescein (Uranine) instrument

Supplied with:

Y lead

Manual and transit case

• Valeport Configure Software

0901EA2 Hyperion to EnviroLog System interface cable various lengths available

Sensor Guard 0901251

