



# Hyperion Fluorescein

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 16Hz and RS232, RS485 and Modbus communications.

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



OPTICAL



DATALOG X2  
& ENVIROLOG  
SOFTWARE

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Sensor Specification	
<b>Fluorescein*</b>	
<b>Excitation</b>	470 nm
<b>Detection</b>	545 nm
<b>Dynamic Range:</b>	0-500 ppb
<b>Minimum Detection (3x SD in RO water)</b>	0.01 ppb
<b>Linearity</b>	0.99 R2
<b>Response Time</b>	0.03 - 2 sec
<b>Output Rate</b>	0.5 Hz - 16 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.	
<b>RS232/RS485/ Modbus RTU</b>	Up to 200m cable Direct to serial port via USB adapter
<b>Baud Rate</b>	2400 - 115200
<b>Protocol</b>	8 data bits, 1 stop bit, No parity, No flow control

Electrical	
<b>External</b>	9 – 28V DC Isolated
<b>Power</b>	<600mW
<b>Connector</b>	SubConn MCBH6F

Software	
Valeport supply DataLog X2 Windows software for instrument setup, data download and display.	

Physical	
<b>Materials</b>	Titanium with Sapphire glass window
<b>Depth Rating</b>	6,000m
<b>Dimensions</b>	40mmØ x 179.5mm (including connector)
<b>Weight</b>	0.50 kg (in air)
	0.26 kg (in water)
<b>Operating Temp</b>	-5°C - 35°C (the sensor is damaged above 60°C)
Ordering	
<b>0901001 - F</b>	Fluorescein (Uranine)

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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