



# Hyperion Fluorescein

Teledyne Valeport's Hyperion Fluorescein sensor delivers high performance measurements of Fluorescein (Uranine) 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. Hyperion is compatible with Teledyne Valeport's EnviroLog and EnviroLog 4G systems.

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 sensor guards and a shaped anti-sag connector cover. If required a more robust Kevlar weave protected cable can be supplied.

## DATA SHEET

### Product Details



OPTICAL



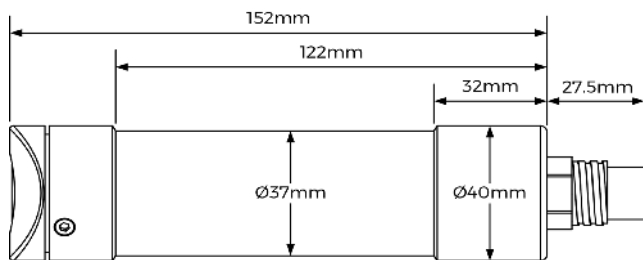
CONFIGURE  
SOFTWARE

Sensor Specification	
	Fluorescein*
Excitation	470 nm
Detection	545 nm
Dynamic Range	0-500 ppb
Minimum Detection (3x SD in RO water)	0.01 ppb
Linearity	0.99 R <sup>2</sup>
Response Time	0.03 - 2 sec
Output Rate	0.5 Hz to 16 Hz (free running) software controlled

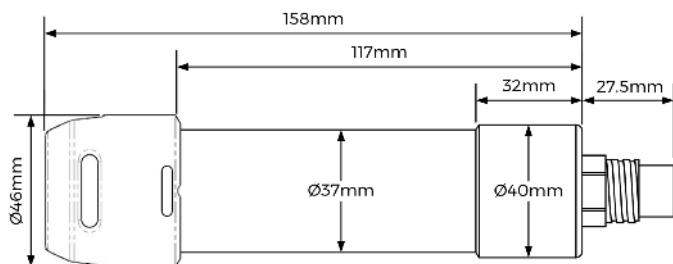
\* Calibrated against Fluorescein solutions of varying concentrations

Physical	
Materials	Titanium with glass window
Depth Rating	6,000 m
Dimensions	Ø40 mm x 179.5 mm (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)
RS485 Modbus RTU (standard)	19200 baud rate 8 data bits   1 stop bit   Even Parity   No Flow Control

Software	
Configure software is supplied. Windows 10 software for instrument setup.	

Ordering	
0901009 - F2	Hyperion Fluorescein (Uranine) instrument
	Supplied with: <ul style="list-style-type: none"> <li>• Y lead</li> <li>• Manual and transit case</li> <li>• Configure Software</li> </ul>
0901EA2	Hyperion to EnviroLog System interface cable (various lengths available)
0901251	Sensor Guard

#### Datasheet Reference: Hyperion Fluorescein | December 2024

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