



HYPERION Fluorometer



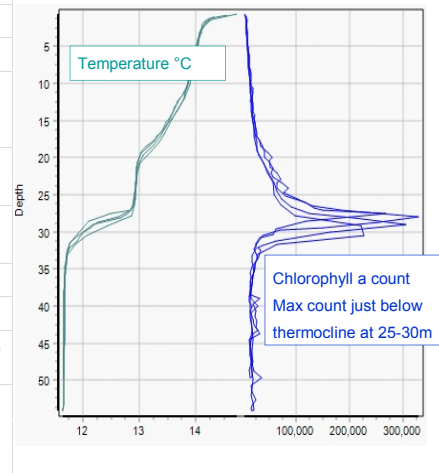
Valeport's Hyperion Fluorometer sensor range delivers high performance measurements of Chlorophyll a, Fluorescein and Rhodamine in a compact & robust package ideal as a standalone sensor, for ROV and AUV integration or used with as part of a multi-sensor array and data logger.

Offered as standard in a 6000m depth rated, titanium housing the Hyperion Fluorometer has a wide range (9-30V DC) isolated power supply, data output up to 32Hz and RS232 communications.



Data Example – Chlorophyll a

Performance	Chlorophyll a	Fluorescein	Rhodamine
Excitation:	470 nm	470 nm	520 nm
Detection:	696 nm	545 nm	650 nm
Dynamic Range:	0-800 µg/l 2 gain settings: 0-40, 0-800 software controlled	0-500 ppb 2 gain settings: 0-25, 0-500 software controlled	0-1000 ppb 2 gain settings: 0-50, 0-1000 software controlled
Instrument Detection limit:	0.025 µg/l*	<0.01 ppb*	<0.01 ppb*
Operational Detection limit:	0.025 µg/l**	0.03 ppb***	0.06 ppb***
Linearity:	0.99 R ²	0.99 R ²	0.99 R ²
Response Time:	0.03 to 2 sec	0.03 to 2 sec	0.03 to 2 s
Output Rate:	0.5 Hz to 32 Hz (free running) software controlled	0.5 Hz to 32 Hz (free running) software controlled	0.5 Hz to 32 Hz (free running) software controlled



* 3x SD in RO water

** calibrated against Chlorophyll a in acetone solution

**Calibrated against Fluorescein/Rhodamine solution

Communications

The instrument will operate in real time, with setup performed by direct communications with PC before and after deployment

RS232: Up to 200m cable
Direct to serial port via USB adaptor

Baud Rate: 2400 - 115200

Protocol: 8 data bits, 1 stop bit, No parity, No flow control

Electrical

External: 9 – 30V DC Isolated

Power: <600mW

Connector: SubConn MCBH6F

Physical

Materials: Titanium with Glass optics

Depth Rating: 6000m

Dimensions: 40mmØ x 179.5mm (including connector)

Weight
0.50 kg (in air)
0.26 kg (in water)

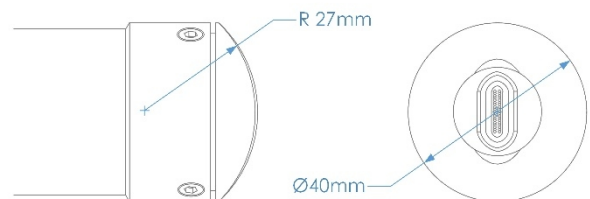
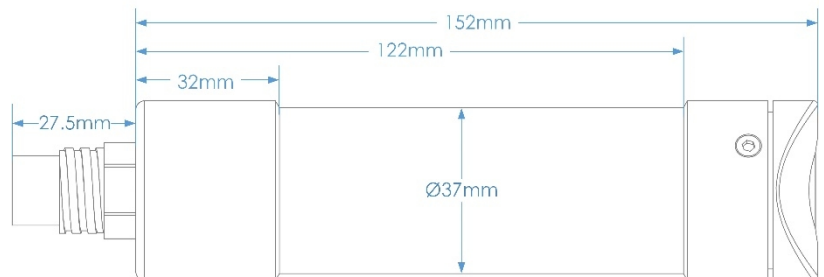
Operating Temp: 60°C

Software

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

Ordering

0901001-C for a Chlorophyll sensing Hyperion
0901001-F for a Fluorescein sensing Hyperion
0901001-R for a Rhodamine sensing Hyperion



Shipping Details

In the box:
1x Hyperion Instrument
1x 0.5m pig tail
Terminal x2 and Manual