

HYPERION Fluorometer



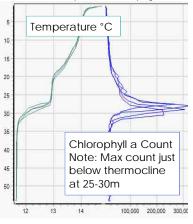
Valeport's Hyperion Fluorometer sensor range delivers high performance measurements of Chlorophyll a, Fluorescein or Rhodamine in a compact & robust package ideal as a standalone sensor, for ROV and AUV integration or used with as part of a multisensor array and data logger.

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.



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

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

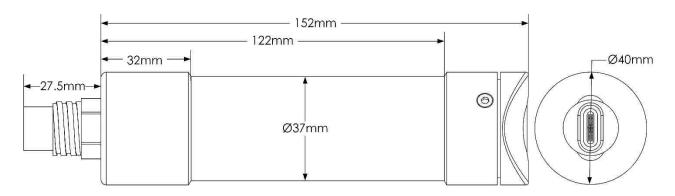
RS232:	Up to 200m cable	
	Direct to serial port via USB adaptor	
Baud Rate:	2400 - 115200	
Protocol:	8 data bits, 1 stop bit, No parity,	
	No flow control	
Electrical		
External:	9 - 30V DC Isolated	
Power:	<600mW	
Connector:	nnector: SubConn MCBH6F	

Software

 $\label{thm:continuous} \mbox{Valeport supply DataLog x2 Windows software for instrument setup,} \\ \mbox{data download and display}$

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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:	-2°C to 40°C
	(the sensor is damaged above 60°C)
Ordering	
0901001 - C	for a Chlorophyll sensing Hyperion
0901001 - F	for a Fluorescein sensing Hyperion
0901001 - R	for a Rhodamine sensing Hyperion
	Supplied with:
	 1x Hyperion Instrument
	 1x 0.5m pig tail
	 Manual and transit case
-	DataLog x2 Software



Data Sheet Reference: Hyperion - Chloropyll, Fluorscein, Rhodamine - December 2016
As part of our policy of continuing development, we reserve the right to alter at any time, without notice, all specifications, designs, prices and conditions of supply of all equipment

^{* 3}x SD in RO water

^{**} Calibrated against Chlorophyll a in acetone solution

^{***} Calibrated against Fluorescein\Rhodamine solution