



# Hyperion Crude Oil

Valeport's Hyperion Crude Oil sensor delivers high performance measurements of hydrocarbons 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.

Offered as standard in a 6000 m depth rated, titanium housing, the Hyperion Fluorometer has a wide range (9-28 V DC) isolated power supply with data output up to 32 Hz via RS232, RS485 or Modbus communications.

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



VALEPORT CONFIGURE  
SOFTWARE

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### Sensor Specification Crude Oil

<b>Excitation</b>	365 nm
<b>Detection</b>	410 - 600 nm
<b>Dynamic Range</b>	0 - 4000 ppb PTSA
<b>Minimum Detection (3x SD in RO water)</b>	0.2 ppb
<b>Linearity</b>	0.99 R <sup>2</sup>
<b>Response Time</b>	0.0625 sec
<b>Output Rate</b>	Up 0.5 Hx to 32 Hz

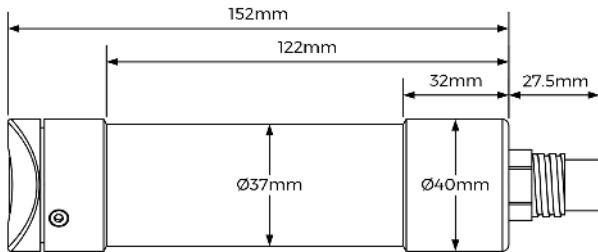
\* Calibrated against PTSA standard solution

### Physical

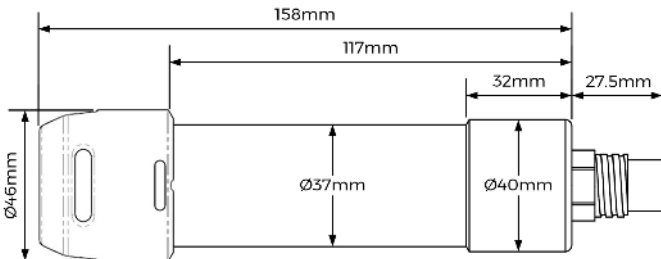
<b>Materials</b>	Titanium with Sapphire glass window
<b>Depth Rating</b>	6,000 m
<b>Dimensions</b>	Ø40 mm x 179.5 mm (including connector)
<b>Weight</b>	0.50 kg (in air) 0.26 kg (in water)
<b>Operating Temperature</b>	-5°C to 35°C (the sensor is damaged above 60°C)

### Electrical

#### Dimensions - Standard Hyperion



#### Dimensions - with optional Sensor



### Electrical

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

### Communications

The instrument will operate in real time, with set up performed by direct communications with a PC before deployment.

<b>RS232   RS485 up to 200 m cable</b>	2400 - 115200 baud rate 8 data bits   1 stop bit   No Parity   No Flow Control
<b>USB</b>	Supplied cable and converter (RS232 to USB)
<b>Modbus RTU (standard)</b>	19200 baud rate 8 data bits   1 stop bit   Even Parity   No Flow Control

### Software

Valeport DataLog X2 / Valeport Configure software for instrument setup.

### Ordering

<b>0901009-F4</b>	Hyperion Crude Oil instrument
	Supplied with: <ul style="list-style-type: none"> <li>• Y lead</li> <li>• Manual and transit case</li> <li>• Valeport Configure Software</li> </ul>
<b>0901EA2</b>	Hyperion to EnviroLog System interface cable (various lengths available)
<b>0901251</b>	Hyperion Sensor Guard Set

### Datasheet Reference: Hyperion Crude Oil | January 2024

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