



Hyperion Crude Oil

Teledyne 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



CONFIGURE
SOFTWARE

Sensor Specification Crude Oil

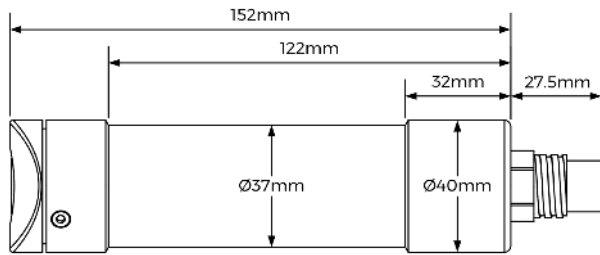
Excitation	365 nm
Detection	410 - 600 nm
Dynamic Range	0 - 4000 ppb PTSA
Minimum Detection (3x SD in RO water)	0.2 ppb
Linearity	0.99 R ²
Response Time	0.0625 sec
Output Rate	Up 0.5 Hx to 32 Hz

* Calibrated against PTSA standard solution

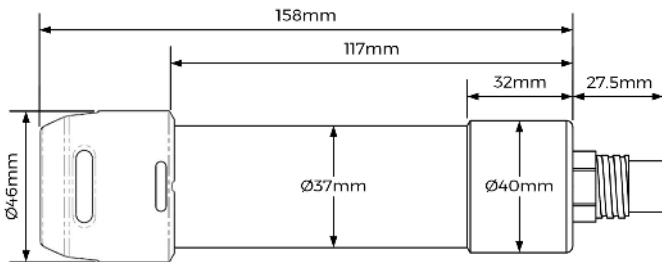
Physical

Materials	Titanium with Sapphire 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 - 28 V DC Isolated
Power	<600 mW
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 up to 200 m cable	2400 - 115200 baud rate 8 data bits 1 stop bit No Parity No Flow Control
USB	Supplied cable and converter (RS232 to USB)
Modbus RTU (standard)	19200 baud rate 8 data bits 1 stop bit Even Parity No Flow Control

Software

DataLog X2 / Configure software for instrument setup.

Ordering

0901009-F4	Hyperion Crude Oil instrument
------------	-------------------------------

Supplied with:

- Y lead
- Manual and transit case
- Valeport Configure Software

0901EA2	Hyperion to EnviroLog System interface cable (various lengths available)
---------	---

0901251	Hyperion Sensor Guard Set
---------	---------------------------

Datasheet Reference: Hyperion Crude Oil | December 2024

As part of our policy of continuing development, Teledyne Valeport Ltd. reserve the right to alter at any time, without notice, all prices, specifications, designs and conditions of sale of all equipment - Teledyne Valeport Ltd © 2024