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-snag connector cover. If required, a more robust Kevlar weave protected cable can be supplied.
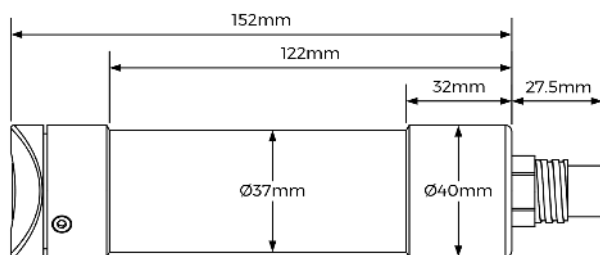
Product Details

OPTICAL

CONFIGURE SOFTWARE
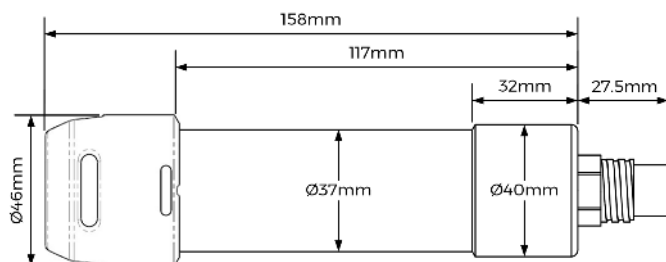
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Sensor Specification
Crude Oil

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

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