



OIL IN WATER MEASUREMENT

OilSys: Enviroflu-HC

Detects Polyaromatic Hydrocarbons



TriBoxII transmitter



Immersion Sensor



Pocket-Power BT battery pack with internal bluetooth module



Features:

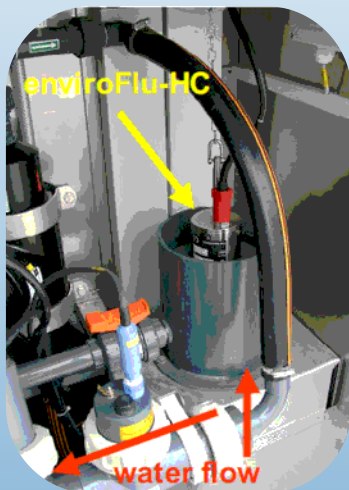
- In situ operation
- No Chemicals required
- Auto cleaning
- Touch screen display
- Up to 4 optional analogue outputs
- 1 configurable relay
- Data logging (2GB memory card)
- Real time digital and graphical display
- 2x RS232 sensor inputs, 1USB service port, 1 USB extension box connection
- Integral solenoid valve for air clean

Benefits:

- Low cost of ownership
- No frequent calibrations needed
- Minimal maintenance
- Portable or fixed site operation

Applications:

- Abstraction protection
- Surface water runoff monitoring
- Wastewater inlet monitoring
- Cooling water monitoring
- Pipeline leakage detection
- Ground water contamination monitoring



Flow cell installation



Safety armature for pipe installation



New Optical Nanocoating helps prevent oil film adhesion &

OilSys: Enviroflu-HC is a UV fluorescent detection system for Polyaromatic hydrocarbons, commonly found in petroleum based oils. It is an extremely sensitive detection method capable of sensing down to ppb levels, thus outperforming other methods such as infra red scattering or absorption. The sensor is factory calibrated against a known fixed Trios standard (TFCS) and therefore gives values in the equivalents of this standard. Individual site calibrations may be performed to give values in the units locally used. The system requires no reagents or standards and may be provided with an air clean facility. The sensor may be deployed "in-situ", "In-pipe" or off line, and may be used with either a fixed site transmitter or PDA/mobile phone for portable use. The optical windows are specially coated to minimise fouling. The Tribox transmitter has a touch screen facility with graphical display and logs data for subsequent download. Analogue and alarm relay outputs are available. No routine maintenance is required except for occasionally wiping. The Xenon flash light is consumable & will need replacement after approx. 4years. Use with "pocket-MSDA" software loaded onto PDA of your choice in conjunction with the Pocket-Power BT battery pack with internal bluetooth enables fully portable application with wireless communication.



System Specification

Operational Principle:	UV Fluorescence (Ex: 254nm/Em: 360nm)	
Range:	Enviroflu-HC 500:	0 – 50ppb or 0 – 500 ppb
	Enviroflu-HC 5000:	0 – 500 ppb or 0 – 5000ppb
	Local calibration may be used to convert to “Total Oil” concentrations (typically 200ppm)	
Detection limit:	0.1 ppb (in pure water) All figures expressed as TFCS equivalent	
Wetted materials:	SS, Ti, plastic, quartz glass	
Sensor cable length:	10m standard	

Transmitter/Controller Specification

Mechanical Construction:	Dimensions l x h x d	170x280x90 mm (approx)
	Weight:	2.5kg
	Materials:	Aluminium case
	Ambient conditions:	0 to 40 °C
	Weather Protection:	IP65
	CE:	Compliant
Outputs:	Display:	Industrial PC + WindowsCE5.0 -Touch screen With numeric & graphical display
	Data storage:	2GB memory card
	Analogue (optional):	up to 4 galvanic isolated 0/4–20 mA, user configurable.
	Relays (optional):	1 volt free contacts
	Data interface:	1 USB service interface, 2xRS 232 sensor inputs, 1 network port, 1 USB extension box connection
Power requirements:	Supply voltage:	115/230 VAC 50-60Hz, optional 24V DC
Portable Application:	PDA requirements	Windows Mobile or CE 5.0 OS installed + Bluetooth
	Features	Data storage & GPS positioning
	Pocket-Power BT	Rechargeable battery + charger, M12 connector Internal bluetooth module + belt clip

Sensor assembly Specification

Mechanical Construction:	Dimensions	280mm long x 68mm dia
	Weight:	1.8kg (SS)
	Materials:	Sea water resistant plastic, SS or Ti, Quartz glass
	Support:	Chain suspension or cable with strain relief
	Medium temperature:	0-40 °C
	Medium pressure:	300m water (6000m optional)
	dist to controller:	10m standard, others on request
Electrical:	Power requirement:	12-26 V DC
	Interfaces:	RS-232, SubConn micro 8 pin male 0-5VDC 4-20mA
Detection system	Light Source:	Miniature Xenon flash lamp, interference filter (peak wavelength 254nm, 25nm FWHM) Output energy controlled by internal reference diode
	Detector:	UV photodiode with interference filter (peak wavelength 360nm, 50nm FWHM)

Ordering Information

When placing an order it is important to indicate the following requirements to our sales staff:

1. Portable or fixed site use?
2. What analogue and digital outputs are required?
3. Options – GSM module, WiFi module, sensor cable length, flow through unit, in-pipe unit, air cleaning head.
4. Sensor material: SS or Ti
5. Is air compressor required?
6. Which controller variant is required: Mains voltage or 24V DC

Supplied by: Envitech Ltd. Unit S7, Capital Business Park, Parkway, Cardiff, CF3 2PU
Tel: 02920 364252, Fax 02920 369876, E-mail: sales@envitech.co.uk

Note To End Users : These specifications are subject to change at any time without notice. Envitech Ltd takes no responsibility for the use of these figures. Please consult Envitech Ltd for the latest specifications before using them in tender submissions or third party quotes... Envitech Ltd reserves the right to change specifications without prior warning. All quoted figures are based on test conditions and are subject to variation due to site conditions.