



MULTIPLE PARAMETERS

MultiSys Props

NO₃, NO₂, BOD/COD/TOC eq, SS eq, Tot dissolved Sulphide, and many more depending on medium



Complete Props Kit



Flow through cell

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:

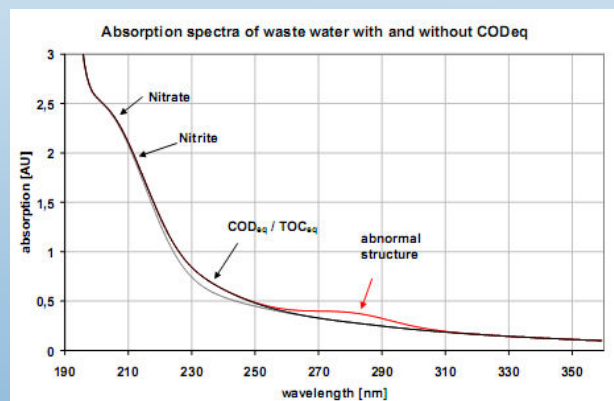
- Low cost of ownership
- No frequent calibrations needed
- Minimal maintenance Automatic error detection

Applications:

- Abstraction/distribution protection
- Wastewater inlet/outlet monitoring
- Sewer monitoring for total dissolved sulphide
- Industrial process monitoring
- Ground water contamination monitoring
- Marine Chemistry



Absorption spectra & in-situ installation



MultiSys: Props is a UV hyper-spectral photometer which gives characteristic absorption spectra for a variety of absorbing substances. Using mathematical algorithms the software is able to process the absorption spectra to calculate the concentration of individual compounds or classes, such as NO₃-N, CODEq, TOCeq, H₂S and other single substances. The unit requires no reagents or standards and may be provided with an air clean facility. 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.

Activated Sludge Plant monitoring



System Specification

Operational Principle:	UV spectrophotometry + mathematical modelling			
Range:	NO3-N 0.1-100 mg/l	COD 0-5000mg/l	TOC 0.01- 500mg/l	NO2-N 0.1 - 50 mg/l
Detection limit:	0.1 mg/l	2mg/l	0.01mg/l	0.1mg/l
Repeatability:	+/- 0.1	+/-5 mg/l	+/- 0.1 mg/l	+/- 0.1 mg/l
Wetted materials:	SS, Ti, plastic, quartz glass			
Sensor cable length:	10m standard			
Variants:	Props WW (wastewater):		SS or Ti, Optical path length 1-10mm	
	Props CW (Clean water):		SS or Ti, Optical path length 10-60mm	
	Props CW XL (on request):		SS or Ti, Optical path length 100mm	
	Props CW Deep sea:		Ti, Optical path length 10-60mm, depth rating 6000m, dia 80mm	

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

Sensor assembly Specification

Mechanical Construction:	Dimensions	520mm long x 68mm dia (deep sea version 80)
	Weight:	5kg (SS) 3Kg (Ti)
	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:	2000m water
	dist to controller:	10m standard, others on request
	Optical path length:	1-10mm adjustable (WW) 10-60mm adjustable with adapter tubes (CW) 100mm (CW XL – on request)
Electrical:	Power requirement:	10-26 V DC
	Data interface:	RS-232, SubConn micro 8 pin male
	Sampling frequency:	Max 1 HZ
	Data transfer:	1200-38,400 baud
Detection system	Light Source:	5W Deuterium lamp (replace when intensity <50%)
	Detector:	Zeiss UV spectrophotometer (190-360nm)

Ordering Information

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

1. What parameters? E.g. NO3 and/or COD, other parameters are available but must be discussed first
2. What analogue and digital outputs are required?
3. Options – GSM module, WiFi module, flow cell adaptor, cuvette adaptor, sensor cable length
4. Sensor material: SS or Ti
5. Is air compressor required?
6. Which controller variant is required: Mains voltage or 24V DC
7. Is an optical cleaning kit required

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.