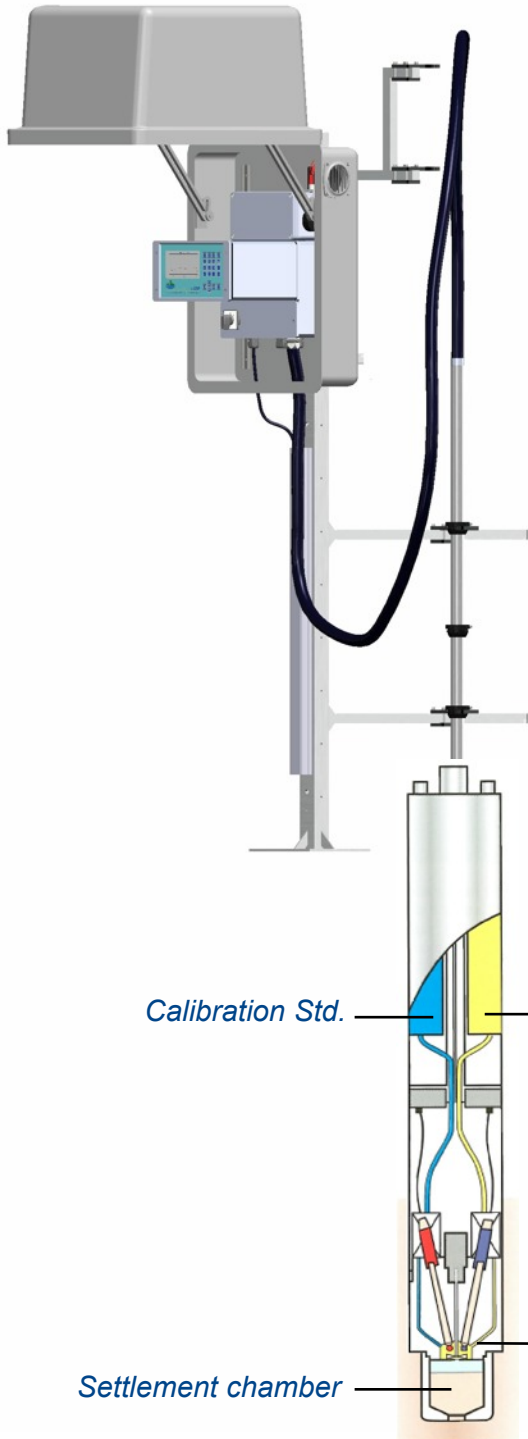




Innovation in Environmental & Process Technology

We *Understand* Water & Waste water monitoring

PBS1 - InSitu Autocalibrating Ammonia Analyser



Features:

- In-Situ operation
- Auto cleaning and calibration
- No sample preparation needed
- Analysis specific to NH₃-N
- Data logging
- Graphical display
- Analogue & digital outputs

Benefits:

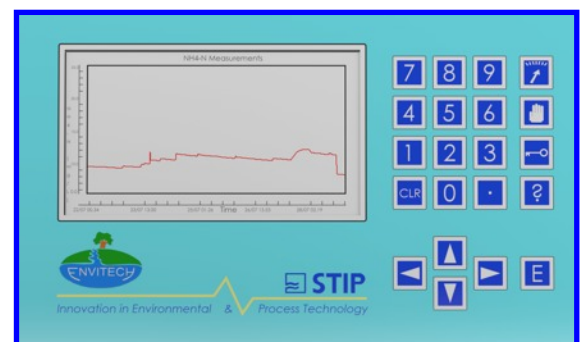
- Minimised installation costs
- Low chemical consumption
- No interference by other ions
- Low operational and maintenance costs
- Real time and historic data display
- Auditable results

Applications:

- Activated sludge monitoring & control
- Final effluent monitoring
- Process monitoring
- Activated sludge process control



*PBS1 in use
in final effluent*



Contact us for more info:

Info@envitech.co.uk Tel: 0044 2920 364252

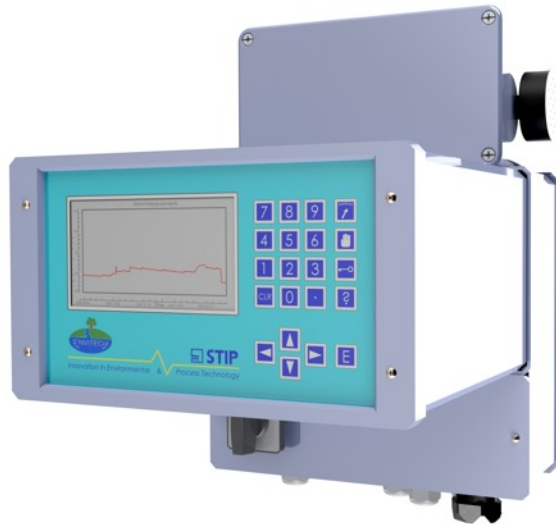
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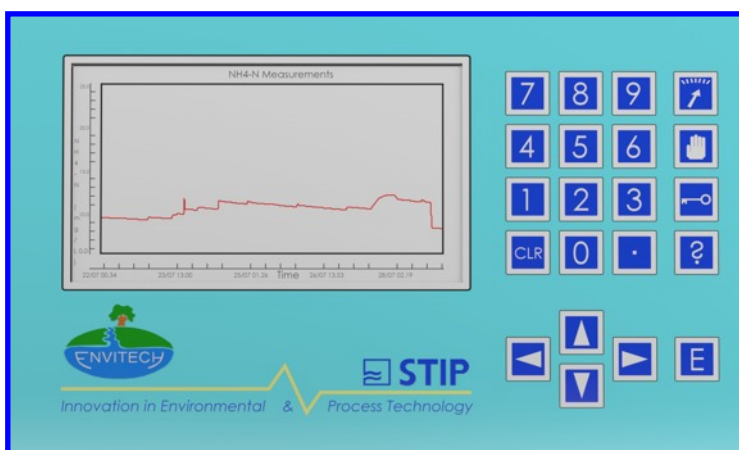
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PBS1 is an insitu Ammonia analyser, utilising a gas sensitive electrode as the detection device. It is a complete wet chemical analyser + sample preparation in a single insitu housing, removing the need for pumps, pipes sample preparation and GRP housings. Sampling is by means of hydrostatic head, which first fills a settlement chamber to reduce solids to a minimum. Clarified liquid is then allowed into the measuring chamber, where EDTA/caustic solution is dosed and stirred to raise pH to 11.5 .



When equilibrium is reached the NH₄-N signal is logged and stored. The system is then pressurised by the on board compressor to evacuate the liquid sample and the whole cycle is repeated. On calibration the sample is retained in the measuring cell and dosed with one and then eight aliquots of high standard, the response being logged on each occasion. The method of standard addition is then applied to calculate the new offset and slope.



The data is logged and displayed in numeric and graphical format. The system is designed for use in activated sludge basins, bed effluents and final effluents.

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System Specification

Operation Principle:	Specific gas electrode
Range:	0.05- up to 1000 mg/l NH ₄ -N - range subject to calibrationsolutions
Resolution:	0.05 mg/l
Repeatability:	3%
Detection limit:	0.05 mg/l
Response Time:	3-5 minutes, measurements normally taken at 15 min intervals
Reagent consumption:	0.5-1litre/month
Standard consumption:	~ 3ml standard solution per day

Transmitter Specification

Construction	Dimensions (h x w x d)	264 x 360 x 345mm
	Weight	12 kg
	Materials	Fibreglass
	Protection class	IP54 (transmitter) IP65 (wet end sensor)
	CE	Compliant
Outputs	Display:	LCD graphic display 16 lines x 40 characters backlit. 6hr graph + current value with 5 digit resolution. 14 days internal storage.
	Analogue out:	0/4-20mA isolated, 500 ohm, 10V max Dig
	Digital out:	4 definable fault relays - NC, max 0.2a/50v
	Disk drive:	3.5" disk
Power requirements	Supply voltage:	115 VAC -60Hz, 230VAC -50 Hz
	Load:	45Watts m a x
	Immunity to V change:	EN50022

Sensor assembly specification

Construction	Materials:	SS, Perspex
	Weight:	12 Kg (filled)
	Dimensions:	215mm max dia, 715mm long (950mm inc pole stub)
	Standard pole length:	1.5m
	Std umbilical length:	5m
Process conditions:	Medium Quality:	Mixed liquors, bed effluents, final effluents

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