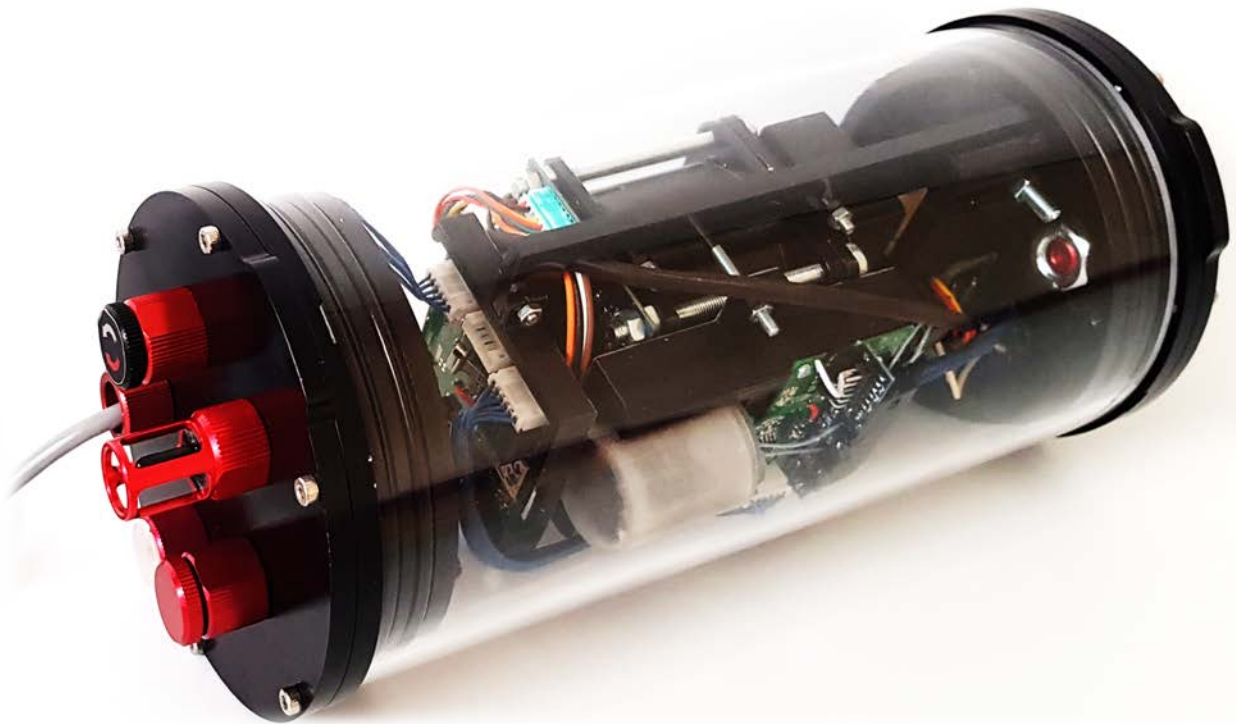


SouthWestSensor Ltd.

NO_2^- and NO_3^- Sensor



www.southwestsensor.co.uk



SouthWestSensor Limited (SWS) has developed novel droplet microfluidic sensors for high frequency and low-cost monitoring of water, waste water and marine environments.

TECHNICAL SPECIFICATIONS

Sampling frequency	8000 times /day
Reagent consumption	1.6 mL/day
Power and data	USB 2.0, < 1.5 W
Submersion	2 m

Nitrite and Nitrate (NO_2^- & NO_3^-)

Range	1 – 800 μM
Detection limit	0.3 μM

Phosphate (PO_4^{3-})

Range	0.5 - 108 μM
-------	-------------------------

Silicate (SiO_3^{2-})

Range	0.006 - 130 μM
-------	---------------------------

KEY FEATURES

- Small footprint
- Low power and reagent consumption
- High frequency sampling
- Reliable & accurate data (error < 10%)
- Periodic internal standard calibrations
- Real-time data logging
- On-board and Cloud data storage options
- Supports remote monitoring and control
- Low maintenance with user replaceable reagent cartridge (1 month)

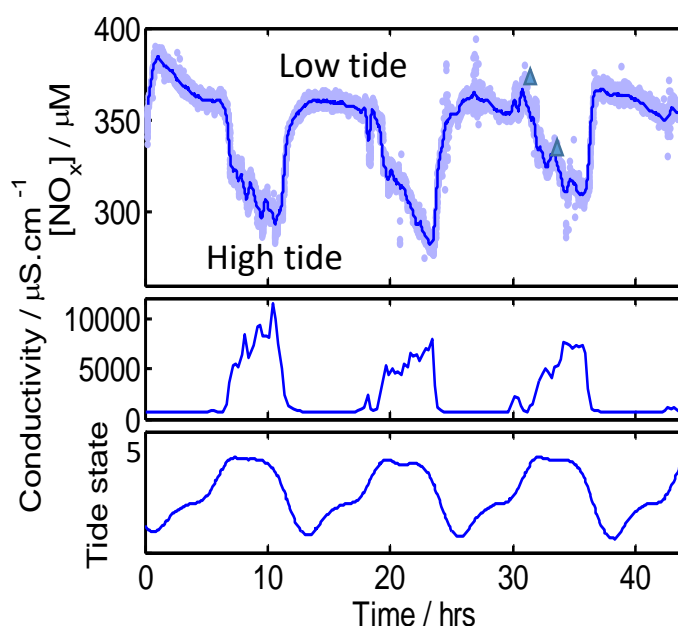
Additional features:

- Water temperature sensor
- Salinity sensor



Example Application

Deployment in River Itchen, Southampton, UK



Disclaimer - The detection limits quoted above represent the equipment's capability during calibration at room temperature 20-25°C. They do not take into account errors in calibration caused by environmental conditions in the field that are beyond the control of SWS Ltd.