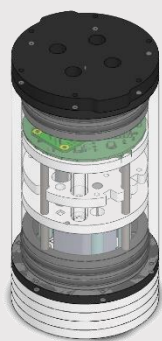
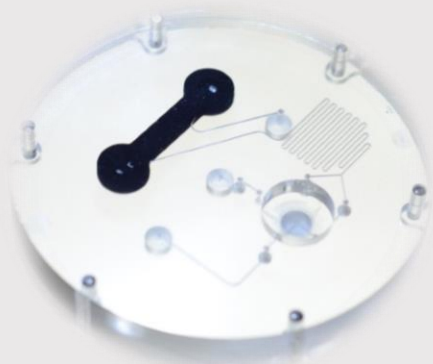


A1000 Phosphate Sensor



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DOT Phosphate Sensor A5111 - 200

Product description: the A1000 phosphate sensor is an Ortho Phosphate sensor based upon DOT's patented and proprietary "Inlaid Optical Channel™" technology. This innovative microfluidic wet-chemistry sensor provides real time measurement of phosphate concentration. The sensor is self-powered and self-logging. Deployment duration is a function of logging rates and battery selection.

This sensor is an excellent contender for towed systems, Unmanned vehicles, gliders, ROVs, Voluntary Observation Ships, buoys, and profiling floats.

The sensor is configurable and can be customized to fit into most platforms.

Weight:

In Air	5 kg (10 lbs.)
In salt water	0.2 kg (0.5 lbs.)

Dimensions:

Diameter	8.9 cm (3.5 in)
Length	45.7 cm (18 in)

Depth rating: 60 m (197 ft)

Power draw: 1 to 5 watts

Battery: rechargeable NiCad

†Deployment duration, 1 measurement/min, self-logging:

- 12 hours (battery limited)
- 7 days (external power provided & reagent limited)

Limit of detection: 52 nM

Concentration range: 0.1 – 60 µM

Sample rate: 1/minute to 1/day (prog.)

Reagents:

- NIST Traceable Standards
- Molybdovanadophosphoric acid, or "Yellow method"
- Blue method upon request

Data download:

- wireless, ethernet, RS232, USB
- output in delimited ASCII

Options:

- Mounting brackets
- Software visualization
- Real time data output