



Marine Sensors for the 21st Century



SenseOCEAN sensors: spanning the world - from the Tropics to the Arctic and from coastal waters to deep ocean

World Firsts!

First integrated multiparameter sensor package
First lab-on-chip sensor deployment on an Argo float
First electrochemical sensor deployment on an Argo float
- with successful integrated data transmission via Iridium from sensor to lab
First multianalyte optode sensor

Other Highlights

6 patents including a new antifouling technique

3 products on the market:

- Unisense Field DataLogger Mini – to date, 3 units sold and one used in the Mariana Trench
- N₂O electrochemical microsensor – installed at >100 wastewater plants
- Chelsea Technologies Group V-Lux multiparameter fluorometer

SenseOCEAN sensors have been deployed on:

- Gliders
- Landers
- AUVs
- CTD frames
- Observatories
- Profiling floats
- Moorings

Reagentless sensors for phosphate and silicate

Optode sensors used at a fish farm

> 150 days deployment of an FRRf (Fast Repetition Rate fluorometry) sensor in the Arctic

> 2 years deployment of multiparameter nutrient sensor in Christchurch Harbour, UK.

Huge steps towards data standardization

State of the art manufacturing processes used e.g. 3D printing

