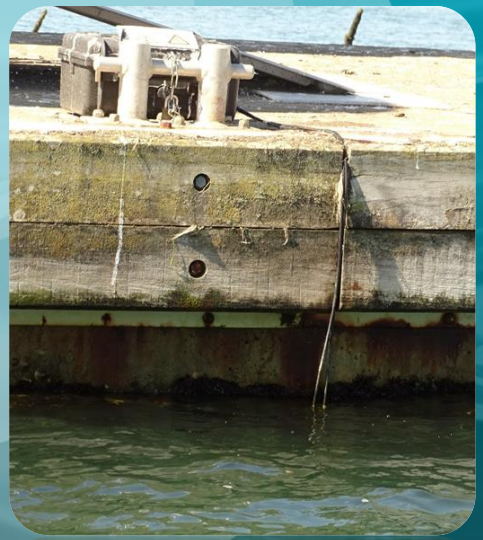
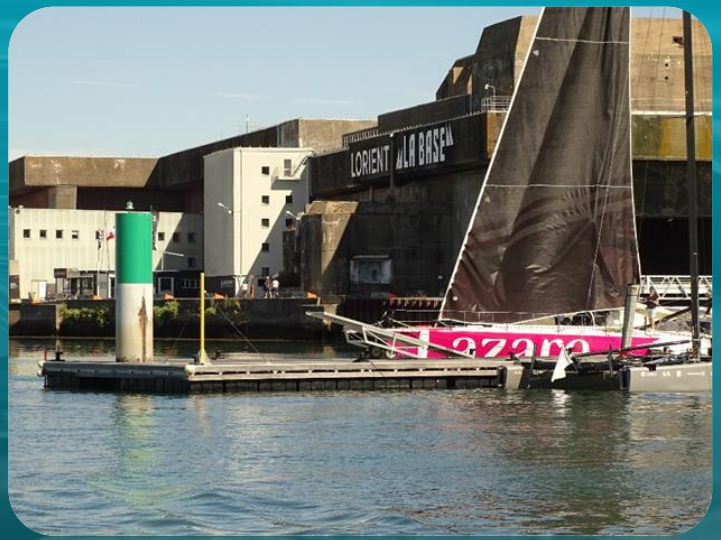
New Option

OPTOD Plastic: Strainer with antifouling option (standard version)



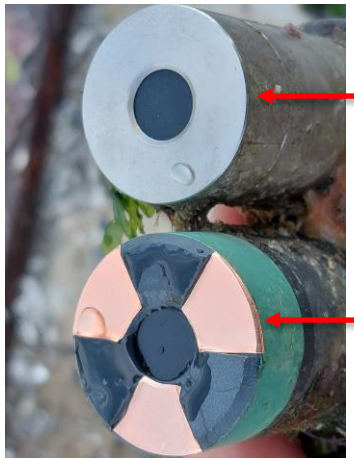


Test 1: Study effectiveness anti-fouling protection

Test duration: 43 days (29/08/2022-> 10/10/2022);

Localisation: immersion in sea water;

Tested materials: 1 standard OPTOD Titanium sensor & 1 OPTOD plastic (version standard strainer + Anti-fouling adaptation).



OPTOD Titanium sensor

OPTOD Plastic sensor, standard strainer + Anti-fouling adaptation

Photo before immersion

Test 1: Study effectiveness anti-fouling protection

Results:

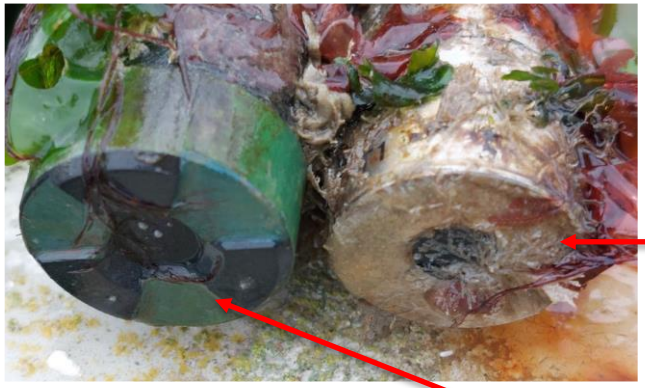


Photo after immersion

OPTOD Titanium sensor

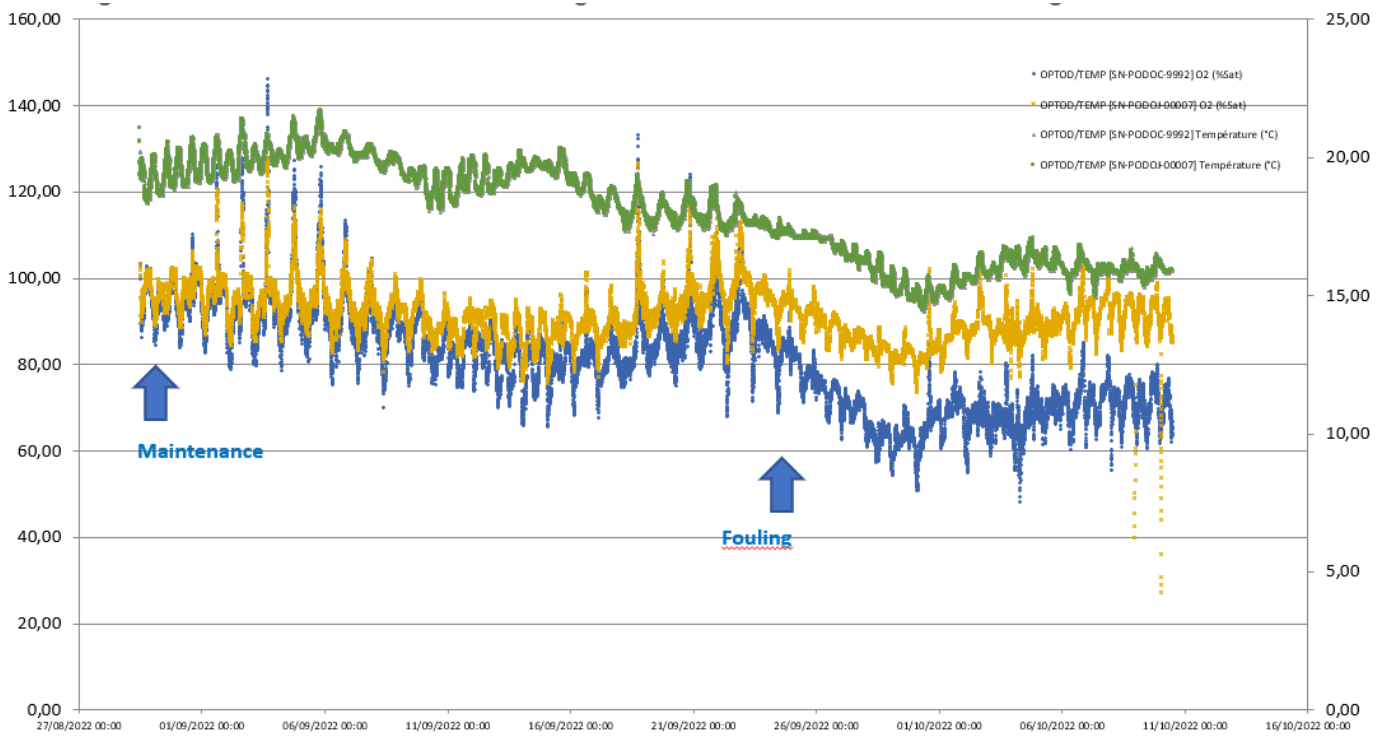
OPTOD Plastic sensor, standard strainer + Anti-fouling adaptation

Much less fouling present on the plastic OPTOD sensor

Strainer with anti-fouling option easier to clean

Test 1: Study effectiveness anti-fouling protection

Results: Temp max. 21,4°C, Temp min. 14,4°C



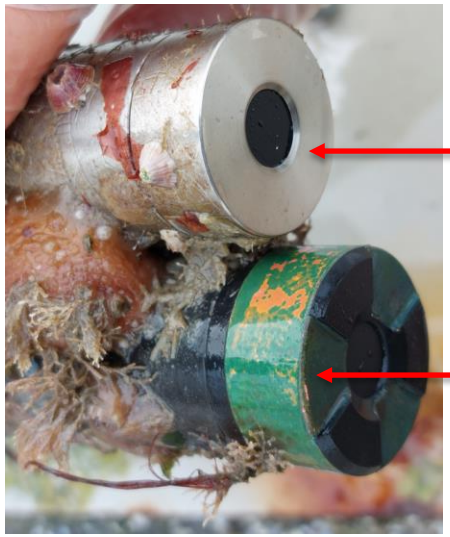
Blue curve: Optod Titanium (impact of fouling)
Yellow curve: Optod plastic+Anti-fouling adaptation

Test 2: Study effectiveness anti-fouling protection

Test duration: 40 days (10/10/2022-> 29/11/2022);

Localisation: immersion in sea water;

Tested materials: 1 standard OPTOD Titanium sensor & 1 OPTOD plastic (version standard strainer + Anti-fouling adaptation).



OPTOD Titanium sensor

OPTOD Plastic sensor, standard strainer + Anti-fouling adaptation

Photo before immersion

Test 2: Study effectiveness anti-fouling protection

Results:

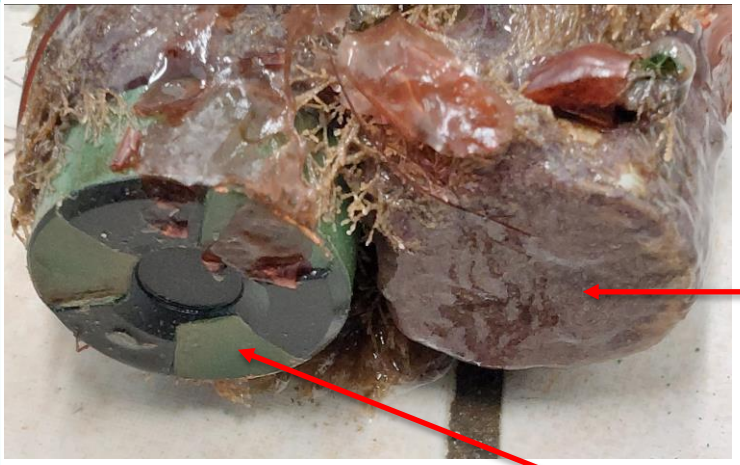


Photo after immersion

OPTOD Titanium sensor

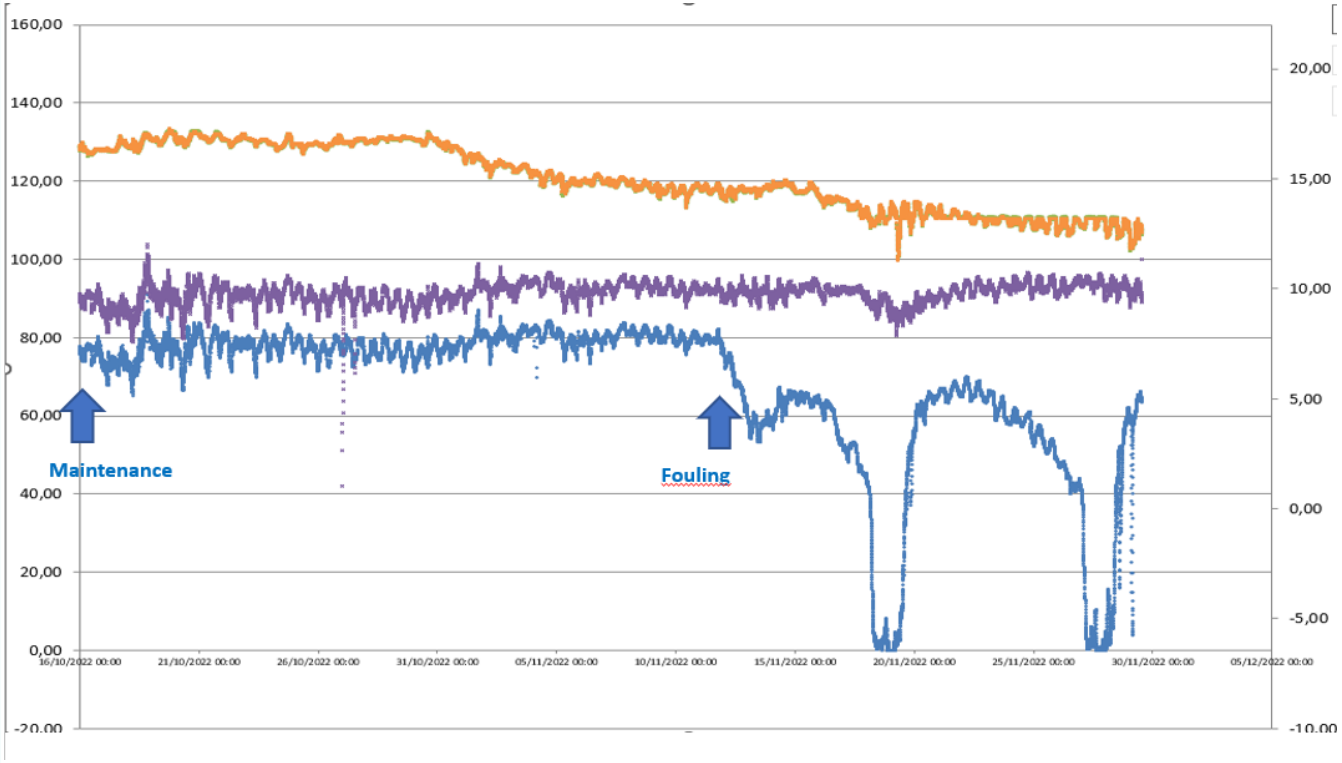
OPTOD Plastic sensor, standard strainer + Anti-fouling adaptation

Much less fouling present on the plastic OPTOD sensor

Strainer with anti-fouling option easier to clean

Test 2: Study effectiveness anti-fouling protection

Results: Temp max. 17°C, Temp min. 12°C



Blue curve: Optod Titanium (impact of fouling-> 11/11/2022)

Purple curve: Optod plastic+Anti-fouling adaptation

Conclusion

The Anti-fouling strainer is very effective in limiting biofouling formation on the DOdisk of the plastic OPTOD sensor, protects the membrane and ensures the continuity of dissolved oxygen measurements after almost 50 days of immersion without maintenance.
The Anti-fouling strainer allows to optimize the manual cleaning frequencies of the DOdisk while preserving it from too aggressive maintenance risk to deteriorate it.

PF-ACC-C-00499
Option Anti-fouling ~~XXX~~ 48 €