

Development of a Low-Cost Electrical Conductivity Meter for Liquids

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Outline

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Introduction

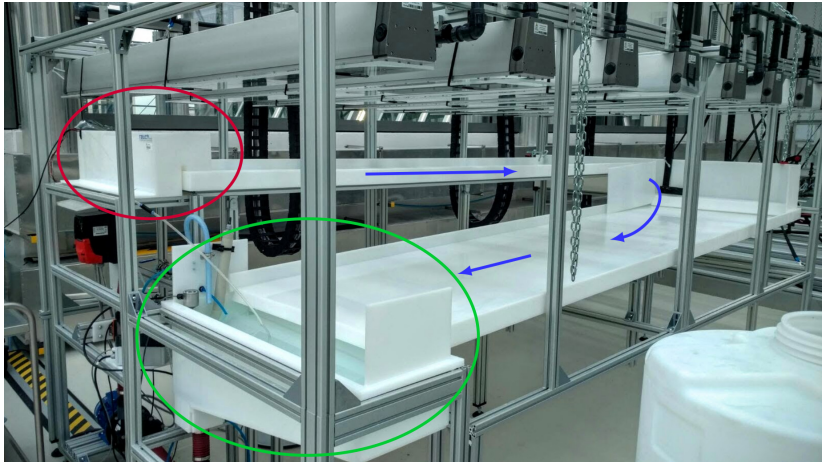


Figure 1: Photobioreactor

Objectives

enable experiments to validate simulation

- ▶ add saltwater impulse to freshwater stream
- ▶ measure changes in salinity over time
 - ▶ at multiple points
 - ▶ fast

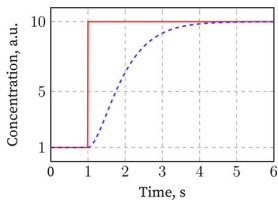


Figure 2: step change and response

Requirements

Nr.	Requirement	Verification
1	spacial resolution: 10mm	Test, Inspection
2	sensitivity: 0.1%	Test
3	range: 0 to 5%	Test
4	cost per sensor: < €25	Analysis
5	deployable in the algae reactor	Demonstr.
6	easy to use	Test, Review

Design

describe Design

more Design

```
import main
```

```
print('test')
```

Results

plots demo

Outlook

new stuff