Development of a Low-Cost Electrical Conductivity Meter for Liquids

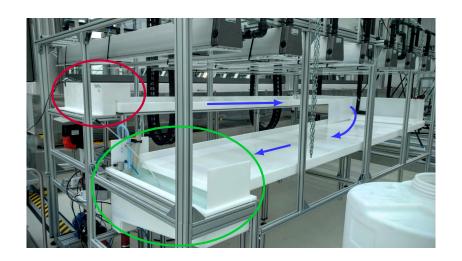
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Outline

- ▶ Introduction
- Objectives
- Design
- Results
- Outlook

Introduction



Objectives

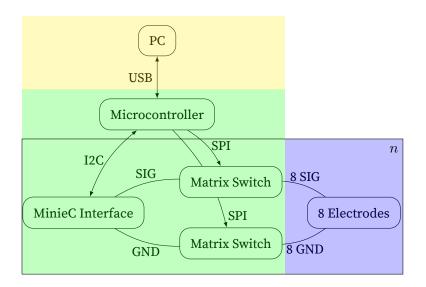
enable experiments to validate simulation

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

Requirements

- spacial resolution: 10mm
- ▶ sensitivity: 0.1%
- range: 0 to 2.5%
- cost per sensor: < €25</p>
- deployable in the algae reactor
- easy to use

Design



finished Hardware





Results

Demo

Outlook

