



UNITED Technology Workshop
20th September 2022

AML SOLUTIONS

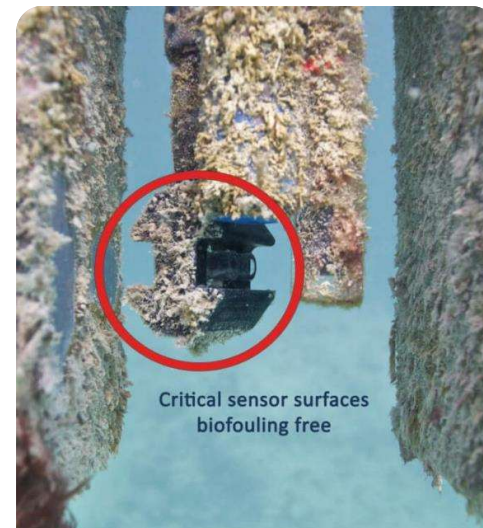
2



Underway Profiling



Instrumentation



Biofouling Control

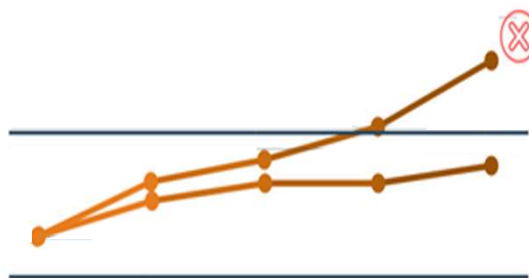
AML “ORANGE” LINE



TYPICAL IN-SITU CHALLENGES



Sensor
Maintenance



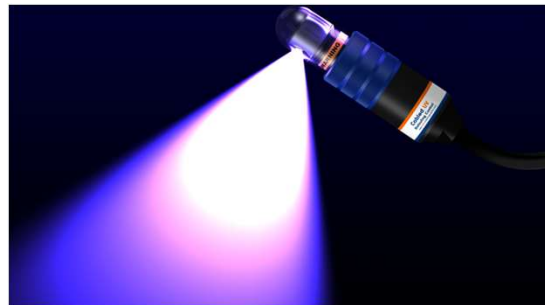
Sensor Drift



Insufficient Data
Collection

UV•Xchange

- An Xchange form fit device used to protect surfaces from bio-fouling using Ultra Violet Light (UV)
- Utilized as a stand alone device or with an AML X•Series CTD Configuration
- Non contact. Non toxic. No moving parts.



UV BIOFOULING CONTROL

"After 15 months and still going, at our worst bio-fouling site, the sensors remain clean and operating fine. We are all absolutely amazed. "

Scott Mclean Director – Ocean Networks Canada Innovation Centre (ONC)



"Six weeks into our test, the unprotected oxygen sensor was clearly fouled while the UV protected sensor is still producing reasonable data."

Jonathan Fram. Assistant Professor – Oregon State University (OSU)

AML “Orange Line” with Streetlamp UV



2nd Gen. Streetlamp UV



- Innovative Streetlamp UV design
- Contains 3 Low Power UV lenses (80mA total)
- Lenses are replaceable after 5000 hrs.
- Provides comprehensive cover of all sensors on endcap plus up to 2 external sensors.
- Maintains consistent data quality & can extend maintenance intervals.
- Proven to be more efficient than previous UVX design, so enabling lower duty cycle / power consumption.

Streetlamp UV

Deployment.

Week 7.

Week 15.



CONTROL
NO UV.



1:12
Duty
Cycle



1:4
Duty
Cycle

Streetlamp UV



The innovative Streetlamp UV introduces a significant improvement on the market leading UVX sensors previously delivered by AML.

Comprehensive **coverage of all sensors** and the endcap.

Reduced duty cycle due to **higher efficiency**.

Dedicated port so no reduction in sensors when adding UV.

Operating and effective all over the world

Non harmful to the environment & no moving parts!

What happens when the lights go out?

