UV Biofouling Control

UV•Xchange & Cabled UV

Remove unpredictability from in-situ sensor performance.

Do your sensors start to drift within weeks of deployment?

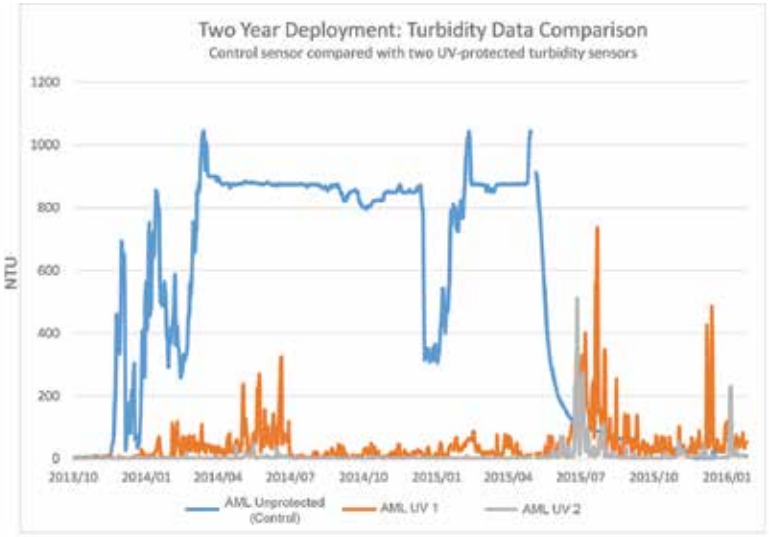
Do you lack the time and budget to keep sensors performing well in-situ?

Are you unable to collect enough data before your sensors succumb to biofouling?

Are TBT antifouling methods outlawed in your country due to its toxic impact on the environment?

Cameras deployed for six months, without Cabled UV (left), and with Cabled UV (right). Note the incidental protection of the lights above the lens on the camera to the right. (Images courtesy of Oregon State University)

UV•Xchange and Cabled UV are the market leaders in antifouling technology. The world's only solution capable of keeping subsea surfaces foul-free for years is backed by six years of successful deployments.



AML CTDs originally deployed in October of 2013 at Ocean Networks Canada's Folger Pinnacle site performed for over two years without maintenance. (Graph courtesy of Ocean Networks Canada)

Clean sensor faces after nine months in-situ. (Image courtesy of Adrian Round, Director of Observatory Operations, Ocean Networks Canada)

Environmental Monitoring

with UV Biofouling Control

Whether deploying for a couple days or a couple years, real-time, multi-parameter **Metrec•X** and **Metrec•XL** are the optimal sondes for environmental monitoring. If only a few parameters are required, smaller **Smart•X** is ideal.

Instruments

	Onboard Sensors [a]	Remote Sensors	UV Ports	Typical UV Power Requirement (Ah/day) [b]
SMART•X	2	0	1	0.408
METREC•X	4	4	1	0.720
METREC•XL	7	4	2	0.960

[a] Maximum, in addition to UV•Xchange
[b] Typical power required for UV•Xchange (at 25% duty cycle, at 12V)

Metrec•X

Smart•X

Sensors

Parameter	Mfr. [a]	Onboard [b]	Remote [c]	Range	Accuracy
Conductivity-Temperature	**AML Xchange™**	x		CND: 0-90 mS/cm TMP: -5-45 °C	CND: ±0.01 mS/cm TMP: -±0.005 °C
Pressure		x		up to 500 dBar [d]	0.05% FS
Temperature		x		-5 to 45 °C	±0.005 °C
Turbidity		x		0-3000 NTU	±2 % of reading or 0.2 NTU [f]
Phycoerythrin (BGA)	**Turner Cyclops-7**	x	x	0 to 750 ppb	Linearity: 0.99R^2
Chlorophyll A (Blue Excitation)		x	x	0 to 500 µg/L [e]	
CDOM/FDOM		x	x	0-1250 ppb [e]	
Fluorescein		x	x	0-500 ppb [e]	
Rhodamine		x	x	0-1,000 ppb [e]	
Crude Oil		x	x	>10000 ppb [e]	
Refined Fuels		x	x	>100 ppm [e]	
pH	**Idronaut**	x	x	0 to 14	±0.01
Dissolved Oxygen	**Aanderaa 4531A Optode**		x	0-800 µm	<8 µm or 5%
PAR	**Li-Cor**		x	10000 µmol/sm^2	±5 % in air

Other ranges are available; please contact us. All specifications subject to change without notice.

[a] AML Xchange™ sensors and Aanderaa 4531A Optode are digital. Other sensors output analog voltage which must be converted to engineering units.
[b] Can be installed on end cap.
[c] Can be mounted on instrument body.
[d] For instrumentation presented on this page, all rated to 500m. Wider ranges available for other X•Series instrumentation.
[e] Dynamic range. Contact us for details.
[f] Whichever is greater.

Metrec•XL

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