

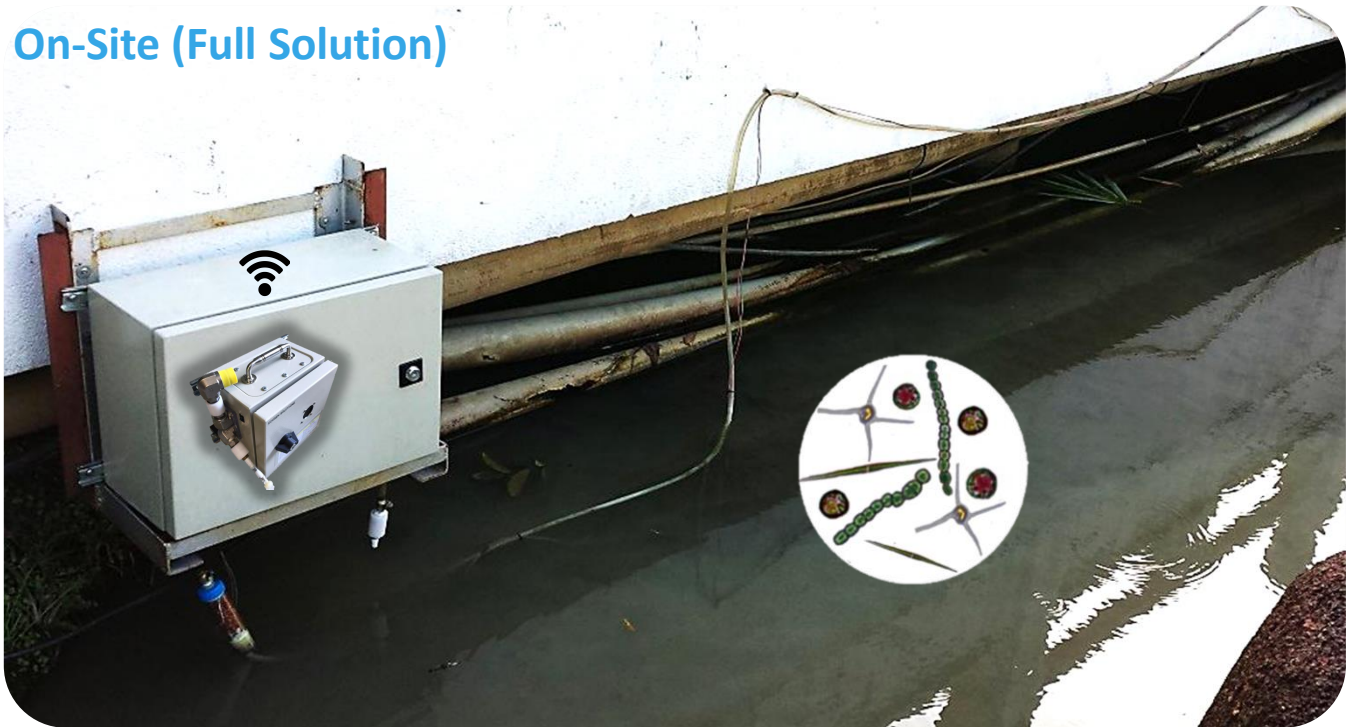
Algae Water Lab (AWL)

The Algae Water Lab (AWL) helps customers to monitor different groups of algae (green, cyanobacteria, red, and/or golden-brown algae) and yellow substances; safeguarding water resources against harmful algal blooms.

Applications: water catchment analysis, waterway assessment, ballast water monitoring, intake monitoring, toxicity and chemical testing, aquaculture farm, recreational water bodies, and environmental and ecosystem research.



On-Site (Full Solution)



Off-Site

Monitoring Station
Analyze
Water Quality



Email/Mobile Alert



Activate
Control Action



SYSTEM SPECIFICATIONS	
Mechanical	
Algae Water Lab	20 x 20 x 15 cm
PhyWL Sensors (^a optional add-on)	17 x 22 x 12 cm
Algae Water Lab Weight	4.5 kg
Enclosure Material	Steel
Inlet/Outlet:	¼" NPT
Environment	
Operation Temperature Range	0 to 45°C
Maximum Pressure Rating	10 bar
Field Enclosure (^a optional add-on)	Steel, IP66
Electrical	
Communication Port	RJ-45
Wireless Communication (^a optional add-on)	3G
Internal Data Logging	Yes
Input Voltage	48 VDC, 100 to 240 VAC
Ventilation	Fan
Pump (^a optional add-on)	Various Types
Battery Backup (^a optional add-on)	Li-ion (1 kg)
Sensor Power Consumption	Typical 4 W (^b F and ^c S mode), 13.7 W (^d A mode)
Optical	
Default Parameters	Chlorophyll a, chlorophyll b, phycocyanin, phycoerythrin, fucoxanthin, yellow substances, turbidity
Detector Range	200 to 850 nm
Measurement Domain	Wavelength
^e Core	Customizable tri-optical
Measuring Time	<10 s
Auto Cleaning (^a optional add-on)	Regulated compressed air at user selectable frequency
PhyWL Sensor Parameters (^aoptional add-on)	
pH	0 to 14
Temperature	0 to 45°C
Dissolved Oxygen	0 to 100 mg/L
Oxidation Reduction Potential	+/- 2000 mV
Conductivity/Total Dissolved Solids/Salinity	Type: 0.07 to 50,000, 5 to 200,000, 10 to 1,000,000 µS/cm
Software	
Sensor Software	iLedlif
Operating System	Linux
Security	Password Protection

^aOptional add-on: For full system version. Contact Ecosen Solutions for pricing and availability.

^bF=Fluorescence, ^cS=Scattering, ^dA=Absorbance.

^eCore can be customized based on parameters/measurement requirements of a specific application.

Remark: Specifications is subjected to change without notice. For latest information, please contact enquiry@ecosensolutions.com