

AquaPro



A smart biomonitoring technology

Biomonitoring allows a complete picture of water quality. It is able to detect a wide spectrum of contaminants, both inorganic and organic, in advance.

AquaPro is the first-line defense of water quality, the early warning, enabling authorities to respond quickly and proactively, saving time, and downstream costs. It performs 24/7, in real-time with remote monitoring capabilities. Triggering alerts when abnormalities in water quality are detected.



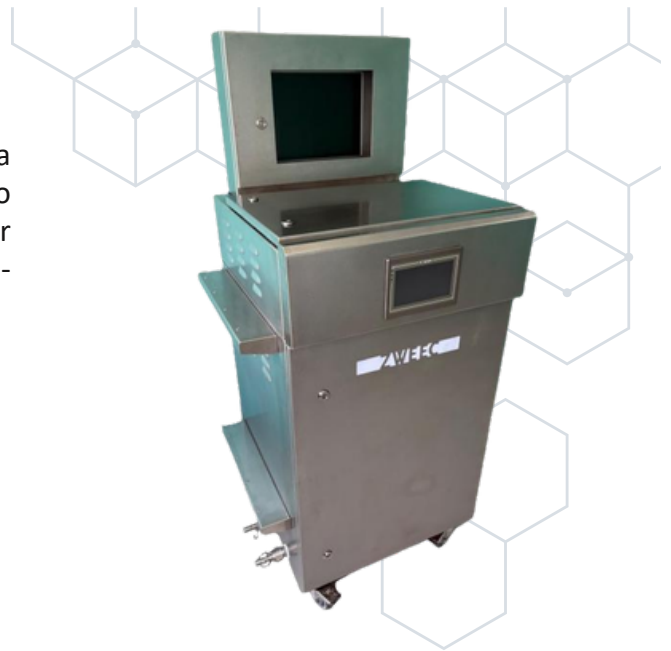
Direct Implementation in High Turbid Water

ZWECC biomonitoring technology has been known for treated water quality monitoring over the past decades. The newly upgraded system, AquaPro is now also able to operate directly in high turbid water (up to 250 NTU). Making it suitable for raw water monitoring.

With Artificial Intelligence (AI) and visualization enhancement, high background noise and high turbidity water won't affect the fish detection.

Tiered Alert System, Including the Early Warning

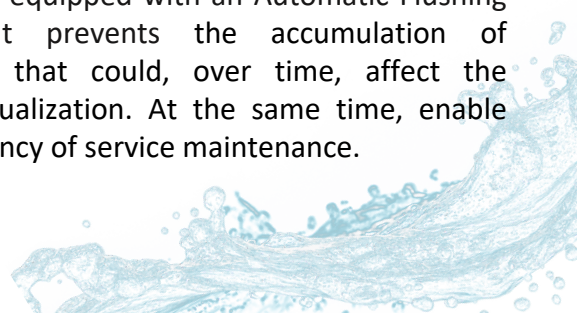
AquaPro is able to monitor 20 fish in motion at a high accuracy. When there are abnormalities to fish behaviour and activity detected, it will trigger the various alerts and send them to the end-users.



Low Maintenance

AquaPro is equipped with an Automatic Flushing feature. It prevents the accumulation of sediments that could, over time, affect the system visualization. At the same time, enable less frequency of service maintenance.

	Brown Alert – Early Warning Fish behavioural changes are observed. Water is suspected to be contaminated.
	Yellow Alert Water quality has been compromised. Needs to be closely monitored.
	Red Alert – Critical Alert Water quality has reached critical stage. Urgent corrective action required.



Technical Specifications

Electrical Rating	<ul style="list-style-type: none">• 220-240VAC, 500W max
Ambient Environment	<ul style="list-style-type: none">• Ambient temperature: 0-45°C• Relative humidity: <90% (non-condensing)
Preferred Condition	<ul style="list-style-type: none">• Indoor/sheltered
Enclosure	<ul style="list-style-type: none">• EG Steel Designed with IP55 features
Footprint	<ul style="list-style-type: none">• Less than 0.7 m² (excluding optional features)
Weight	<ul style="list-style-type: none">• Less than 65kg (excluding optional features)
Water Flow	<ul style="list-style-type: none">• 2 litre/minute
Fish Type	<ul style="list-style-type: none">• Tiger Barb (2 to 5cm)
Display	<ul style="list-style-type: none">• 15" LCD Display
Peripheral Control	<ul style="list-style-type: none">• 7" True TFT Touchscreen Panel• PLC Controller
Peripheral (included)	<ul style="list-style-type: none">• Auto Feeder• Auto Sampler
Optional Features	<ul style="list-style-type: none">• Auto Leveler• Dechlorination Unit• Heater Unit• Water Parameter Sensors• UPS
Alerts Notification/ Alarm Monitoring	<ul style="list-style-type: none">• Tiered audio-visual alert indicator• Dry contacts• Email, SMS (telecom services and data not included)
Communications	<ul style="list-style-type: none">• Wireless 802.11b/g or Wired (RJ45)



ZWEEC is a Singapore-based technology company focused on creating innovative water technology solutions. We carry out extensive technological research to develop cutting-edge solutions that help our customers solve challenging problems in the water and environmental sector. Our smart water technology solutions have been implemented in Singapore, the US, China, Taiwan, and the Middle East and have won numerous awards.

ZWEEC Analytics Pte. Ltd.

Headquarters

512 Chai Chee Lane #05-07,
Singapore 469028

☎ +65 6776 6711

✉ enquiries@zweec.com

www.zweec.com