Continual Monitoring of pH, salinity & temperature in RAS with AQ5

ANB Sensors

CHALLENGE

Maintaining optimal water quality is critical in aquaculture, especially in Recirculating Aquaculture Systems (RAS) where fish are raised in controlled environments. Fluctuations in pH can significantly affect fish health, growth rates, and overall system efficiency. Traditional pH sensors often require frequent calibration and maintenance, which can disrupt operations and lead to inconsistent data collection.

USE CASE

The ANB Sensors' AQ5 sensor was integrated into the sensor system of a RAS facility during a trial phase. This integration enabled real-time monitoring of pH levels in the water, allowing operators to maintain optimal conditions for the fish. The sensor's calibration-free design meant that it could operate continuously without the need for frequent maintenance, ensuring reliable data collection.

AT A GLANCE

- Real-Time pH Monitoring: Continuous pH measurements ensure optimal water quality conditions, critical for the health and growth of aquatic species in RAS facilities.
- Calibration-Free Operation: The sensor's no-calibration design minimises maintenance needs, allowing for hassle-free, reliable monitoring without disruption to operations.
- Enhanced Aquaculture Efficiency: Improved water quality management leads to healthier fish stocks, reduced disease risk, and increased overall production efficiency in aquaculture systems.

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