AVFM 6.1 Provides Flow Measurement for Prawn Farming Project.

Charoen Pokphand Foods PCL is an agro-industrial and food business in Bangkok, Thailand. It operates integrated businesses from feed manufacturing, animal farming, and food processing, exporting products to more than 40 countries worldwide.

Strong breed, quality feed, and good farm management are critical factors for the sustainable success of their farming business. Part of their aquaculture farming processes is to control the environment and ensure the proper growth of their shrimp, preventing disease outbreaks and producing clean, healthy, and disease-free shrimp throughout the year.

To maximize their water usage, the company has applied ultrafiltration technology to the water conditioning processes. This process can filter microscopic germs that are hazardous to aquatic animals before clean water is released into the system, and biotechnology to treat used water and recirculate it, instead of using more water from the nearby local water source.

Area Velocity Measurement for Prawn Farm

Charoen Pokphand Foods contacted Intech 2000, Pulsar Measurement's partner in Thailand, for help with Area Velocity Measurement at their prawn farm. They wanted to measure the velocity of the surface water during times when their water wheels were operating and wanted to know the level of the water so they could calculate the volumetric value of water in their prawn farm.

Water wheels are essential to the aquaculture farming industry and provide many contrasting functions, including:

- Supplier of oxygen in the pond waters. The movement of the wheel aggregates the water, creating a greater amount of oxygen in the water for the shrimp.
- Mixing the upper and lower layers of the pond water. Mixing the upper and lower levels of the pond water helps create an ideal environment for the shrimp. Leaving these waters to lie stagnant creates a toxic environment and yields a low survival rate.

After the engineering team at Intech 2000 provided guidance to the customer regarding the installation and setting the measurement parameters for the AVFM 6.1, the installation was complete, and the customer instantly received accurate readings. After a trial period, Charoen Pokphand Foods plan to install another system in their second plant, to ensure their process is operating efficiently.

Successful Installation for Intech 2000

After listening to the application requirements, Intech 2000 recommended the AVMF 6.1 Area Velocity Flow Meter. The AVFM 6.1 uses a submerged ultrasonic sensor to continuously measure both velocity and level in the channel. The sensor resists fouling, corrosion, and abrasion and can be configured with the standard submerged velocity-level sensor, or with submerged velocity plus a separate non-contacting ultrasonic level sensor, for highly aerated fluids, or those with a high concentration of suspended solids.

The principle of the flow meter was suitable for what the end-user was looking for, it followed their expectations and was able to transmit flow readings to an existing online monitoring system. After the engineering team at Intech 2000 provided guidance to the customer regarding the installation and setting the measurement parameters for the AVFM 6.1, the installation was complete, and the customer instantly received accurate readings. After a trial period, Charoen Pokphand Foods plan to install another system in their second plant, to ensure their process is operating efficiently.

Pulsar Measurement offers a range of flow and level measurement solutions for a variety of applications. Find your ideal solution by using our product configurator or by speaking with our team of experts.

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More Information

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