

Badger® Series 2100 Dual Channel Flow Monitor

Fish Farming - Water Quality Control

Application Brief

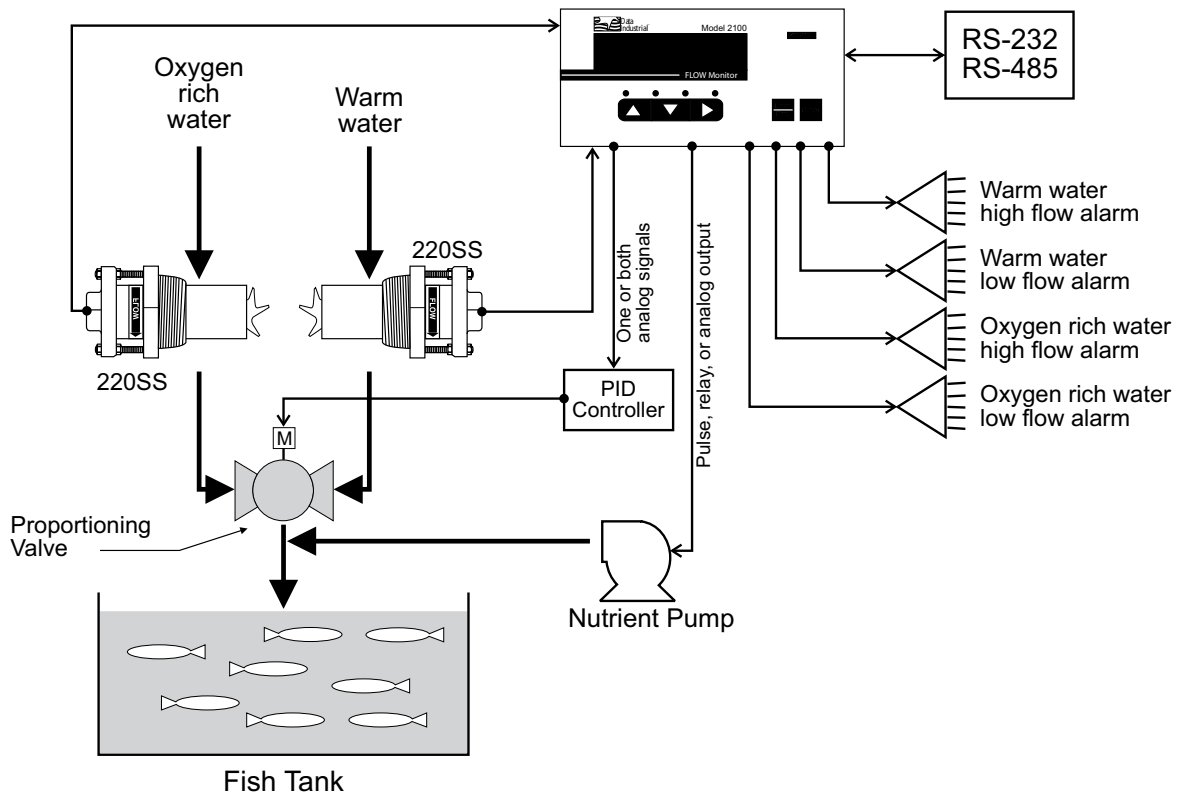
Commercial fish farming is a growing industry where warm oxygen-rich water is a key to maximum yield. An electric generating plant using river or seawater for cooling is a good source of warm water, but it must be mixed with cold oxygen rich water. It is important that these flows remain in balance and held within certain limits.

When ordered as dual channel monitor with the appropriate options, the Badger Series 2100 can provide displays of both the warm and oxygen rich water rates and; each of the flow totals. Set-point relays provide contact closures indicating when the flow is above or below specified limits.

Chemical treatment, or nutrient control, can also be based on one or both of the flow rates by using the pulse output or relays to pace a chemical feed pump.

Analog output signals representing each of the two flows can be used separately or in combination; as inputs; the variable speed drives, chemical injection, or data recording devices. In place of one of the analog outputs an RS232 output can also be used to communicate with computer systems either directly or via a modem to a remote location.

The diagram below shows some of the possibilities. The Series 2100 is a powerful monitor. In addition to the standard frequency pulse input and output, up to four form C relays can be added, and has three option slots for any combination of analog input, analog output, RS232, or RS485 communication option cards.



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