

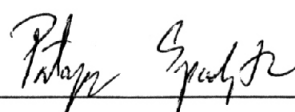
Prapon Fukin 2006: Dissolved Oxygen Warning System Powered by Solar Cells.  
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Dissolved oxygen (DO) measurement is a method in obtaining how much oxygen is dissolved in the water; leading to the control of the amount of dissolved oxygen at a suitable level. Knowing the amount of dissolved oxygen can prevent aquatic animals from deficient environment, which may lead to harm the aquatic animal.

This research presents the dissolved oxygen warning system powered by solar cells. The equipment is set to automatically measure the dissolved oxygen at every 30 minutes. The dissolved oxygen level can be set by varying from 1-9 mg/l. The system is also able to display the amount of dissolved oxygen through LCD screen. The alarm system will activate when the measured amount of dissolved oxygen is less than the defined amount of dissolved oxygen. Furthermore, this equipment is energized by 12V, 65Ah battery converted electricity from 80 Watt solar cell, which can be used in all locations.



Student's signature



Thesis Advisor's signature

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