

Time based automatic system of drip and sprinkler irrigation for horticulture cultivation on coastal area

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Abstract	This paper presents a compact and simple automated irrigation based on supplying time to use the energy and water optimally according to the needs of plants in coastal-sandy land. Namely RTC-DS1302, Arduino Mega-2560, and AC or DC pumps as timing sensor, control processing unit, and irrigation actuator respectively, were employed in this study. The system also works for automated water filling inside the reservoir. Automated irrigation of drip and sprinkler were applied, powered by solar system for onion (<i>Allium cepa</i> L.) and cabbage flower (<i>Brassica oleracea</i> var. botrytis L.) cultivation at coastal area of Banjarsari Village, Cilacap, Central Java, Indonesia. As the result, applied system was able to supply water continuously to the plants on adjusted time (07:00, 11:00, and 17:00, for 15 minutes respectively).
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