

ABSTRACT

Strawberries are subtropical fruits that have high economic value with soil as the main companion planting medium. Control of the soil becomes the most important thing for strawberry farmers, where the soil has a saturated nature and will clot due to continuous watering. Grikulan watering on the ground as an anticipatory measure undertaken by strawberry farmers. This research focuses on strawberry plants for automation of watering griculan obtained from soil moisture sensor data and Internet of Things based rainfall. Based on the measurement results of the soil moisture sensor YL-69 has an average error value of 11.307% and an average tipping bucket type rain sensor has an error of 5.442%.

Keyword: *Grikulan, Strawberry Soil Saturation, Internet of Things*