

## ABSTRACT

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Solar Streetlight konventional use electricity from PLN, then they need an electricerity line that connected the lamp that can use more cost and component, so we constructed streetlight with solar panel so that didn't use an electricerity from PLN. Solar panel send out electricerity to battery, then after the battery fully loaded continue to LED. Current sensor use to monitor the LED and the voltage sensor for monitor the battery, and GPS for monitor the potition of battery to avoid the theft. The result of this calculation with the sensor ACS712 and MAX471 in the code is different with multimeter, so we need more accurate calculation that makes an accurate result, while the accuracy if the GPS is pretty good when it placed in the outdoor.

Keyword : solar panel, street light, sensor, GPS, communication data