

ABSTRAK

The design of this building security system was based on the needs of the integrated building security, by making use of microcontroller technology. In this system, the security guard person walked towards the locations that need to be monitored and at that each location there were one RFID tag. Then the security guard person got the data tag and the time taken electrically vi RFID from the RTC and stored them in EEPROM. Therefore the security guard person activities were ensured to have walked through that particular place. Furthermore, these data had been sent to a computer for display via serial communications, at the end word time of that security guard person. With the existence of this system a wired network was not needed to monitor the security system of a building.

Keywords: *Mikrokontroler ATtiny2313, RTC DS1307, EEPROM 24C512, RFID dan RS232*

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Pembuatan Sistem Pengamanan Gedung ini didasari oleh kebutuhan informasi keamanan gedung terpadu, dengan memanfaatkan teknologi mikrokontroler. Pada sistem ini, satpam akan berjalan menuju ke lokasi yang perlu dimonitor dan pada setiap lokasi terdapat Tag RFID, kemudian Satpam tersebut mengambil data Tag tersebut, lalu waktu diambil dari RTC dan disimpan di EEPROM, sehingga dapat termonitor sistem keamanan gedung yang dijalankan oleh Satpam. Selanjutnya data tersebut akan dikirim ke komputer untuk ditampilkan melalui komunikasi serial. Dengan sistem ini tidak diperlukan jaringan kabel untuk memonitor sistem keamanan suatu gedung.

Kata kunci: *Mikrokontroler ATtiny2313, RTC DS1307, EEPROM 24C512, RFID dan RS232*