

ABSTRACTION

Automated systems has not just been used for production systems, but has also been used in various applications. Flexibility and programmability of an automated system give the ease of conducting a system process according to user's need with high technology. The use of computer has become a part of automated system, where the system's components are controlled by software to conduct a process.

This monitoring system designing is using Programmable Logic Controller (PLC) programming as the controlling system, with the statement list language on FST 4 software and Visual Basic software, which is the interface for human and machine in order to communicate indirectly.

The Lifting system is seldom to use monitoring process. With the monitoring proses user possible to know every information and event happened in the lift, so it can help the operator to maintenance the lift system. The monitoring system is online system. The information and data from the lifting system in PLC will send to Visual Basic as a softwarein PC. The user can see the process of lifting system with the visualization in the VB.

Pada tahap pengujian, dilakukan pengujian program yang meliputi pengujian program PLC, komunikasi antara PLC dan PC dan pengujian visualisasi VB. Hasil dari pengujian yang dilakukan, menunjukkan aplikasi sistem pengontrol PLC dan *monitoring* pada program VB ini mampu merespon lingkungan fisik seperti sensor dan tombol, yang akan ditampilkan pada layar komputer dan mampu menyediakan informasi yang dibutuhkan untuk mengetahui keadaan nyata pada sistem setiap saat.

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