

Abstract

This paper is a thesis investigating the possibilities to create a system for controlling and monitoring a remote object, for instance a building. It involves data acquisition, monitoring, alarm and controlling. Also, it introduces the LabVIEW product line as well as the G programming language to the reader. Great weight has been put into an investigation in SMS communication. The workplace has been Enator Teknik Karlstad, a subdivision of TietoEnator, during the spring semester of 2000.

The work has resulted in a working application for monitoring temperature and noise. The measured values are displayed on a screen. Functionality for logging data to disk has been added, as well as the possibility to view monitoring in real-time through a web browser interface. Some functionality for alarming as well as for control according to the results of the SMS Investigation has also been implemented.