

ABSTRACTION

An easy access to information is needed by many people nowadays. Moreover, in this mobile era, every single person wants information to be available, fast, and easy to be accessed. Information are needed in many aspects of life as supporting tool, one of those aspects is manufacturing sector. An example of information which is needed in manufacturing activities is a production report which is always up to date and also online. Therefore, there is need for technology which could support this kind of needs, by using GSM/GPRS Modem technology. By using GPRS technology, data in the form of production report could be send in short time and will not cost much money.

In this final project, the author has designed a Controlling and Monitoring System for an automatic workstation as a simulation of workstation in a factory, which will be integrated with GSM/GPRS Modem technology. The automatic workstation used in the final project is MPS (Modular Production System) Pick n Place.

Steps in the final project was started by developing program for PLC (Programmable Logic Controller) and the develop HMI (Human Machine Interface) software on the MPS Pick n Place object. The next step was developing an application program as a connector between controlling and monitoring system in the MPS Pick n Place and also as an application to send report via GPRS by using GSM/GPRS model Fargo Maestro 100. Software used to develop the program is Borland Delphi 7. Next step was develop the web which will be placed on the receiver server. The function of the web is to show the report which saved in the receiver server.

From the result of the research, it can be concluded that by integrating controlling and monitoring system by using GSM/GPRS modem on an MPS Pick n Place automatic workstation, the report will be easy to be wrote, monitored, and also it would be easy to send an up to date and online report .

Keywords : controlling dan monitoring,PLC,HMI,GSM/GPRS Modem,up to date,online