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Project Title : The Retrofit Experimentation Set PLC FMS 50  
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### **Abstract**

The purpose of this Project is to retrofit experimentation Set PLC FMS 50. The repairing and improving the performance of the control unit are controlled by PLC (Programmable Logic Controller : PLC) to control the process of an experiment. PLC also improve control of the experiment through the computer screen with the SCADA (Supervisory Control And Data Acquisition :SCADA). The experimental set PLC can move with steps function that users defined. There are two operation modes , 1). Operating mode command manually (Manual) 2). Automatic mode (Automatic)

After restoration treatments PLC, the experiment will divide into two types to the operation mode of the experiment set PLC following to people who programs in manual mode

The result from The Retrofit Experimentation Set PLC FMS 50 is found that it experiment can move follow to the user. Both operation modes are implement by PLC. The SCADA can be able to moving and working according to actual situation of systems . From assessment by experts, the results showed that experts evaluated the Hardware and Software would be in good level of criterion. Average of 4.6