Pasin Ngamwongchon 2009: An Automatic Fire Suppression System Controller for A Personal Vehicle. Master of Engineering (Safety Engineering), Major Field: Safety Engineering, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Wichai Siwakosit, Ph.D. 76 pages.

The main purpose of this thesis is to study an automatic fire suppression system controller for a personal vehicle which can be adjusted to suite the working conditions of various types of personal vehicle. This system can detect heat and discharge fire suppression agent to 2 critical areas which are an engine compartment and a trunk area. This system is also constructed from available parts in Thailand.

A microcontroller (MCS – 51) is used as a processor and a controller for the system. An assembly language is used for programming. A model is constructed to test the activation of the system controller. There are 2 critical areas to be covered with 2 temperature sensors and 1 nozzle actuator for each area. The system is working properly and can be implemented in available.

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