

ABSTRACT

The development of technology and transportation is now increasing very rapidly and demands from all aspects that occur well and more effectively. In its application, the train still experiences problems, namely one of the most important factors in train transportation is braking, it is still vulnerable to inadequate distribution of air pressure from the auxiliary reservoir on the brake cylinder, due to a lack of machinist communication in the control room which can result in a braking system drop and have an impact on train accidents.

Therefore, in order to overcome or minimize the impact of this, a research on the system of data recorder design on braking of passenger trains based on microcontrollers was made. So that in the future in order to overcome these unwanted things.

The output obtained can later be monitoring the pressure in the auxiliary reservoir where the pressure data can be displayed on the LCD and the data can be recorded and stored on the sd card module and can display the output of the air pressure in CSV format in MS Excel.

Keywords: Auxiliary reservoir, Brake Cylinder, SD card module.