

SEISMIC MONITORING DEVICE

Prepared by: Edward Anak Martin

ABSTRACT

This project is about to detect the vibration. It is used to observe the strength of vibration. The specific requirement of the project is to find the vibration sensor that has high sensitivity and a good coupling to the ground. The concept is this device detect vibration and the vibration sensor will react as input and send the input into atmel to calculate the strength of vibration. The atmel convert the vibration signal into digital signal. After this conversion, the signal send into computer via USB to rs232. The output will display in computer screen.

Therefore, Atmel Atmega328 was used for this project. I use visual basic 6 to display my output. Inside visual basic, there is software called Microsoft comm control 6.0. Its help the program to detect the signal that was sending by the circuit. Besides that, the visual basic 6.0 can display the output in graph form.

For further detailed information, this report will be provided on the construction and working principle of this project which involved vibration sensor, Atmega328 and the component used for this entire project.