

## **ABSTRACT**

In the telecommunication industry and high current division using cable for data transportation device and electrical energy are important from one place to others. This cable connect one client to others in same networks or others.

Failure often occurs on transmission via cable such as short circuit between cable conductor phase, disconnected cable caused by nature factor either stolen which committed by irresponsible person.

An automatic monitoring system using microcontroller and other supporting device which can detect secondary cable network on metal local access network automatically on PC made for monitoring trouble network.

This monitoring system is able to lock for trouble location address secondary cable or air cable on metal access local network automatically that look from personal computer and there is alarm detector as indicator if trouble occurs.