ABSTRACT

DATA LOGGING FOR TEMPERATURE AND INFRARED

THERMOGRAPHY IMAGE IN THE ELECTRICITY NETWORK

Every company need electrical energy for their operational activities. Because of that, it becomes a vital requirement. Supply of electrical energy is sustainable and reliable is needed by customers, especially for the industry and companies. Failure of an electrical compenent can lead to a cessation of power supply which will interfere with the productivity of the company. Yet over time, material degradation process can lead to failure in the component network. To avoid this, a predictive maintenance method with thermography inspection using infrared camera is required. Data logging system inspection results in the form of temperature graphs and image data proved to detect irregularities in the temperature of electrical components. Recommendations are expected to prevent the occurrence of component failure on the power grid.

Keyword : *thermography, infrared camera, data logging, predictive maintenance, recommendations.*