DESIGN OF AUTOMATIC ELECTRIC BATIK STOVE FOR BATIK INDUSTRY

[1]RAMADONI SYAHPUTRA, [2]INDAH SOESANTI

[1]Department of Electrical Engineering, Faculty of Engineering,

Universitas Muhammadiyah Yogyakarta

Jl. Ringroad Barat Tamantirto, Kasihan, Yogyakarta, INDONESIA

e-mail: ramadoni@umy.ac.id

[2]Department of Electrical Engineering and Information Technology, Faculty of Engineering,

Universitas Gadjah Mada

Kampus UGM Jl. Grafika 2, Yogyakarta, INDONESIA

e-mail: indah@mti.ugm.ac.id

ABSTRACT

This paper proposes design of automatic electric batik stove in order to increase productivity and maintain a healthy environment in batik industry. Batik is the process of writing a picture or decoration on any media by using wax batik as a color barrier. In the production process of batik, the batik stove is needed. During batik used this stove is still not automated, so in this study designed automatic electric batik stove. The automatic electric batik stoves results of this research work automatically so as to facilitate the batik in batik activities. This stove is a very simple tool in the form of physical or works. This stove utilizes a temperature sensor as an input the data to manage large or small currents so as to produce the necessary heat. This batik stove using dimmer circuit which is used to manage large or small stream on the heating element. The prototype of the batik electric stove uses ATMEGA8 microcontroller with AVR C programming language code. From the test results, the automatic electric stove batik has been working in accordance with the desired design.

Keywords: *Electric stove, batik, automatic, microcontroller, AVR C.*

1. INTRODUCTION

Indonesian government is promoting the diversion program from kerosene to LPG gas as we know called gas conversion [1]-[3].

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