

DEVELOPMENT OF AUTOMATIC CONTROL SYSTEM BASED ON HMI

by M. KHAIRUDIN, FARANITA, RUSTAM

ABSTRACT

The development of industrial automation technology has led to the control system based human machine interface (HMI) that allows the monitoring system by the user. Automatic control based HMI emphasizes monitoring techniques in real time for the plant performance's through the monitor screen or LCD. This paper presents the design of automatic control system based HMI to increase user convenience for controlling the plant. This study finds a solution based HMI automatic control system for monitoring a plant performance's remotely using the LCD screen or monitor through (1) monitoring a plant condition through visualization of real time status, (2) monitoring the parameter values that exist through remotely. This study uses a research and development, with each stage of sub-systems will be assessed for improving the system performance's so can obtain in accordance with the desired system. The results show the plant system can perform selecting objects based on the colors of red, white and silver. Also can distinguish the workpiece of metal and non-metal. The process of selection can be monitored through the monitor screen.

Kata Kunci: *human machine interface, automatic contro, user*