DESIGN OF A LAN-BASED WATER CHILLER AND TEMPERATURE MONITORING SYSTEM TO SUPPORT THE INDIGO DIGITAL PRINTING MACHINE

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ABSTRACT

Before the development of digital information, all information could be spread widely, one of which was through print media or often known as digital printing. Digital printing is an important part of the publication, information and print world systems, where various pieces of information can be contained in print, whether in the form of newspapers, pamphlets, books and so on. To support digital printing, there are many printing support machines ranging from manual to automatic, this makes the world of digital printing an interesting and existing market that needs to be followed. One of the players in the world of digital printing is a product from the HP manufacturer with an Indigo machine, a machine that offers advantages in the speed of the printing process, quality of results and colors, as well as production stability which has been widely recognized in various countries, including Indonesia. Based on the important function of supporting machine productivity, an additional system is needed so that the temperature and water level monitoring process becomes more efficient, so an idea emerged to create a design for a temperature and water level monitoring system in a LAN-based water chiller to support the Indigo Digital Printing Machine. which will provide effective real-time monitoring of the temperature and status of the chiller water level in the engine room, with the temperature reading test results concluding that the sensor accuracy level is 98.68% and the overall system function success rate is 100%

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