ABSTRAK

ANALISIS ALAT PENGERING PAKAIAN OTOMATIS BERBASIS *INTERNET OF THINGS*

(2024: xiv + 50 Halaman + Daftar Pustaka + Lampiran)

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Penelitian ini mengkaji kinerja alat pengering pakaian dengan fokus pada pengaruh suhu dan variasi waktu pengaruhnya terhadap proses pengeringan. Pengujian dilakukan selama 150 menit dengan interval pengukuran setiap 30 menit. Hasil menunjukkan peningkatan suhu dari 30,5°C hingga 52,5°C selama periode tersebut. Analisis juga mencakup pengukuran tegangan, arus, dan daya untuk beban AC dan DC. Perbandingan antara pengukuran menggunakan *Internet of Things* (IoT) dan metode konvensional menunjukkan perbedaan dalam sensitivitas dan pola data yang dihasilkan. Penelitian ini memberikan wawasan penting tentang efisiensi alat pengering pakaian dan akurasi metode pengukuran yang berbeda.

Kata kunci: Pengering, Suhu, Waktu, IoT, Konvensional

ABSTRACT

ANALYSIS OF INTERNET OF THINGS BASED AUTOMATIC CLOTHES DRYER

(2024: xiv + 50 Pages + References + Attachment)

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This study examines the performance of clothes dryers by focusing on the influence of temperature and time variations on the drying process. The test was carried out for 150 minutes with measurement intervals every 30 minutes. The results showed an increase in temperature from 30.5°C to 52.5°C during the period. The analysis also includes voltage, current, and power measurements for AC and DC loads. A comparison between measurements using the Internet of Things (IoT) and conventional methods shows differences in sensitivity and patterns of data generated. This study provides important insights into the efficiency of clothes dryers and the accuracy of different measurement methods.

Keywords: Dryer, Temperature, Time, IoT, Conventional