

RANCANG BANGUN SISTEM AUTOMATIC TRANSFER SWITCH (ATS) DAN AUTOMATIC MAINS FAILURE (AMF) PLN DAN GENSET BERBASIS MODUL DEEP SEA ELECTRONICS 4520 MKII

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ABSTRAK

Pada tugas akhir ini dilakukan rancang bangun sistem Automatic Transfer Switch (ATS) dan Automatic Mains Failure (AMF) PLN dan generator set berbasis modul Deep Sea Electronics 4520 MKII. Modul Deep Sea Electronics 4520 MKII adalah peralatan elektromekanikal yang dapat dikendalikan dan difungsikan untuk memindahkan posisi sumber tenaga listrik dari jaringan utama (PLN) ke sumber tenaga listrik cadangan (genset) ketika pasokan listrik dari jaringan utama terputus. Sistem terdiri rangkaian daya, rangkaian kontrol modul DSE 4520, rangkaian interlock PLN dan genset, rangkaian kontrol non essential load, modul DSE 4520 MKII, pilot lamp, relai, kontaktor, selector switch, emergency stop dan Current Transformer (CT). Dari hasil pengujian diperoleh adanya selisih hasil pembacaan tegangan, frekuensi, arus dan cos phi antara modul DSE 4520 MKII dibandingkan dengan multimeter dan clamp meter. Selisih tegangan sebesar 0,88Vac, frekuensi 0,016Hz, arus 0,08A dan cos phi 0,06. Non essential load tidak aktif saat genset menyuplai beban. ATS dan AMF akan memcuti tegangan dari bus sistem ke beban ketika tegangan berada pada keadaan normal yaitu 220 volt, dan memcuti frekuensi dari bus sistem ke beban ketika frekuensi genset pada keadaan normal yaitu 50 Hz. Proses down time yang dibutuhkan genset untuk menyuplai beban setelah starting adalah 11 detik.

Kata kunci : ATS, AMF, DSE 4520 MKII, Genset, Down time.

ABSTRACT

In this final project, the design of Automatic Transfer Switch (ATS) and Automatic Mains Failure (AMF) PLN and the generator set based on the Deep Sea Electronics 4520 MKII module. The Deep Sea Electronics 4520 MKII module is electromechanical equipment that can be controlled and enabled to move the position of power source, from the main network (PLN) to the backup power source (generator) when the power supply from the main network is lost. System consists of power circuit, DSE 4520 module control circuit, PLN interlock circuit and generator set, non essential load control circuit, DSE 4520 MKII module, pilot lamp, relay, contactor, selector switch, emergency stop and Current Transformer (CT). From the test results obtained the difference in the results of voltage readings, frequency, current and cos phi between DSE module 4520 MKII compared with multimeter and clamp meter. Difference of voltage equal to 0.88Vac, frequency 0.016Hz, current 0.08A and cos phi 0.06. Non essential load is inactive when the generator supplies the load. ATS and AMF will supply the voltage from the system bus to the load when the voltage is in the normal state of 220 volts, and feed the frequency from the system bus to the load when the frequency of the generator in the normal state is 50 Hz. Down time process required genset to supply the load after the starting is 11 seconds.

Keywords: ATS, AMF, DSE 4520 MKII, Genset, Down time.

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Table of Contents Perancangan Automatic Main Failure Dan Automatic Transfer

1. Understanding the eBook Perancangan Automatic Main Failure Dan Automatic Transfer
 - The Rise of Digital Reading Perancangan Automatic Main Failure Dan Automatic Transfer
 - Advantages of eBooks Over Traditional Books
2. Identifying Perancangan Automatic Main Failure Dan Automatic Transfer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Perancangan Automatic Main Failure Dan Automatic Transfer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Perancangan Automatic Main Failure Dan Automatic Transfer
 - Personalized Recommendations
 - Perancangan Automatic Main Failure Dan Automatic Transfer User Reviews and Ratings

- Perancangan Automatic Main Failure Dan Automatic Transfer and Bestseller Lists
- 5. Accessing Perancangan Automatic Main Failure Dan Automatic Transfer Free and Paid eBooks
 - Perancangan Automatic Main Failure Dan Automatic Transfer Public Domain eBooks
 - Perancangan Automatic Main Failure Dan Automatic Transfer eBook Subscription Services
 - Perancangan Automatic Main Failure Dan Automatic Transfer Budget-Friendly Options
- 6. Navigating Perancangan Automatic Main Failure Dan Automatic Transfer eBook Formats
 - ePub, PDF, MOBI, and More
 - Perancangan Automatic Main Failure Dan Automatic Transfer Compatibility with Devices
 - Perancangan Automatic Main Failure Dan Automatic Transfer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Perancangan Automatic Main Failure Dan Automatic Transfer
 - Highlighting and Note-Taking Perancangan Automatic Main Failure Dan Automatic Transfer
 - Interactive Elements Perancangan Automatic Main Failure Dan Automatic Transfer
- 8. Staying Engaged with Perancangan Automatic Main Failure Dan Automatic Transfer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Perancangan Automatic Main Failure Dan Automatic Transfer
- 9. Balancing eBooks and Physical Books Perancangan Automatic Main Failure Dan Automatic Transfer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Perancangan Automatic Main Failure Dan Automatic Transfer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Perancangan Automatic Main Failure Dan Automatic Transfer
 - Setting Reading Goals Perancangan Automatic Main Failure Dan Automatic Transfer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Perancangan Automatic Main Failure Dan Automatic Transfer
 - Fact-Checking eBook Content of Perancangan Automatic Main Failure Dan Automatic Transfer
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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