

ABSTRAK

Orang-orang bekerja berjam-jam didepan komputer, sehingga lupa mengendalikan peralatan listrik rumah tinggal. Berdasarkan hal tersebut, telah dibuat sistem pengendalian peralatan listrik rumah tinggal berbasis pemanfaatan port paralel Personal Computer. Komputer diinstal program pengoperasian untuk mengeluarkan sinyal 8 bit dari 25 pin port paralel DB-25 (register data) dan dikirim ke perangkat antarmuka untuk mengendalikan on/off sumber (AC 220V) melalui optocoupler moc3020 yang mendrive triac BT136. Program pengoperasian dibuat menggunakan bahasa-C (Delphi-7). Pengendalian beban satu-persatu sepenuhnya berhasil dan pengendalian beban secara bersamaan memiliki persyaratan khusus. Sistem dilengkapi pengendalian jarak jauh melalui media internet menggunakan software Teamviewer-13.

Kata kunci :

Port Paralel DB-25, Optocoupler moc3020, Kontrol on/off peralatan listrik rumah tinggal

People work long hours in front of a computer, so they forget to control the home's electrical appliances. Based on this, a control system for residential electrical equipment has been created based on the utilization of the Personal Computer parallel port. The computer installed an operating program to issue an 8-bit signal from 25 pin parallel port DB-25 (register data) and sent to the interface device to control the on / off source (AC 220V) through the moc3020 optocoupler that drives the BT136 triac. The operating program is made using the C-language (Delphi-7). Load control one by one is fully successful and load control simultaneously has special requirements. The system is equipped with remote control via internet media using Teamviewer-13 software.

Keywords :

DB-25 Parallel Port, Moc3020 Optocoupler, Control on / off home electrical appliances

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