

Feasibility study of using electronics wireless electricity detector with python software

Abstract

In this paper, an electronic instrument was developed that can detect electrical energy without using the conventional probes. The proposed system can detect the AC and DC voltage via wireless detector. The circuit design is based on the theory of an electronic circuit consisting of Darlington transistors that have a high gain, and a copper strip (or wire) is used as a probe. It is primarily concerned with the development of an electronic circuit for the safe handling of hazardous electrical, radiation and chemical substances. Furthermore, the proposed system offers multipurpose services such as short circuit prevention and troubleshooting as well as cable disconnection prevention. It also utilizes hazardous sensor services for any leakage voltages and currents since only DC voltages are used in the circuit design. The design is considered "green innovation" due to the fact that a DC voltage source is used rather than AC or high voltage. Intelligently designed and selection practices make efficient use of resources and minimize energy consumption by creating efficient environments. System analysis has been conducted using Python software since this language offers flexibility, and is simple to use.

Keywords:

Short circuit, Electronic devices, Electrical energy