Design of Smart Distribution Box System in Ecuador

Overview

In this work, we propose a prototype design and the implementation of a smart low-voltage DPB integrated with a residential load forecasting feature in addition to smart control and real-time monitoring and analysis of the connected loads. Smart Grid conception spreads the idea about an eficient, safe and flexible electric system capable of monitoring the health of the grid, take fast actions to recovery it after a contingence and to integrate Distributed Generation near to the delivery points of energy. These characteristics aim to. An IoT dashboard was used to display the most significant information in terms of voltage, current, real power, reactive power, apparent power, power factor, and energy consumption. Additionally, the panel system offers visualization capabilities that were integrated into a cloud-based machine. International Journal of Physical Sciences and Engineering (IJPSE) The research made it possible to verify that since 2013 a group of institutional actions have been carried out in Ecuador, in order to achieve the articulation in the country of intelligent networks, for which it has been elaborated. This project introduces an IoT-controlled smart distribution box designed for enhanced energy management and convenience, boasting

versatile features for both online and offline usage. The range of applications extends from pure energy distribution in buildings to building automation and through to industrial plants. SMART DISTRIBUTION BOXES FOR FLEXIBLE BUILDINGS.

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	From decentralized energy, signal and data distribution to distribution boxes for smart buildings, we offer the right solution. We mount any electronics in the manifolds! All options are open here, and the ...
	Resumen– En este trabajo se describe la implementación de una Smart-Grid eficiente en la red eléctrica Ecuatoriana, dados los altos costos de producción, el uso de hidrocarburos y la constante ...
	In this regard, we demonstrate the design and the implementation details of an IoT-enabled panelboard with smart features.
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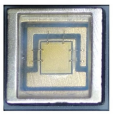
	This document provides an overview of a project to design the distribution system for a smart city.

In this paper, we present the design and the implementation details of a low-cost embedded system that provides smart features to the conventional low-voltage distribution ...

Then, the four subsystems of which the ADMS is formed are detailed, as well as the operational hierarchy of the different Control Centers that allow the control, supervision and monitoring of the ...



This project introduces an IoT-controlled smart distribution box designed for enhanced energy management and convenience, boasting versatile features for both online and offline usage.

In this research, an analysis of the electricity market in Ecuador is carried out, a portfolio of projects by source is presented, which are structured in maps with a view to an energy transition ...

The concepts linked to smart grids represent a break with the traditional way of consuming all the energy coming from a centralized electrical system, based on large generation plants with an extensive ...

En este contexto, esta investigación tiene por objetivo estudiar el impacto de diferentes tecnologías de redes inteligentes a la confiabilidad de los sistemas de distribución.

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