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Abstract Abstract

An automatic monitor system for electric power demand applying in campus in combination with multi-functional digital ammeter, PC and remote controller of micro-computer is proposed in this thesis. With RS-485 communication interface, computer can read data of electricity-consuming in ammeter and make equipment condition monitoring or switch control to the remote controller. Based on the software, this system can estimate the rational demands, monitor the quality of power supply and the receiving and distribution equipment, make statistics and analysis on electricity-consuming data of all circuits, integrate electric power demand control and net information.

This system is useful for electricity-consuming agency to know about electric power consuming status and reduce cost of operation accordingly, therefore, users may make rational contractual capability according to the features and status of electric load so as to restrain load peak and save expenditure of electricity consumption. On the basis of not impacting the original circuit, it can be installed in all electricity consumers in simple way, which may not only reduce cost of electricity-consuming and promote its efficiency, but also improve the stability of electric power system and reliability of power supply during the load peak in summer. This system is also applicable for enterprise and organ besides useful for electric energy monitor in campus so that this system will be helpful for the domestic energy-saving.

The surging consumption of electricity by Tainai Woman’s College of Arts & Technology in recent years has not only increased heavy load to electric power system, the fines borne for this reason have also been the serious burden on the annual expenditure of this college, therefore, the planning and construction of Power SCADA System is proposed , and the practical operation data, to verified the Power SCADA system is feasible.
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