ABSTRACT

Automatic Electricity Meter Reading System

A method of designing an automatic electricity meter reading system is disclosed. The proposed system consists of a large number of electricity meter readers, a small number of meter data receivers, a multiplexer and a computer. Each electricity meter reader is able to read a plurality of electricity meters belonging to different customers in the neighbourhood. Periodically, typically once every month on a day close to a pre-set day, each electricity meter reader makes a telephone call and transmits meter data of the associated electricity meters through a customer's telephone line to a meter data receiver installed at an electricity control centre, and at the same time also receives control data from the meter data receiver. The meter data are then transmitted daily from the meter data receivers through a multiplexer to a computer installed at the same location for the purpose of storage, billing and other processing. All electricity meter readers are A.C. power operated and do not need batteries to back up.1 The installation of the electricity meter readers do not require any modification of the associated electricity meters.

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