

Rural Load Management System

- User Friendly
- Reliable Scheduler
- Dependable Information Source
- Adaptable to any Distribution Transformer
- Over Load Protection
- Versatile through Programmability
- Relay Driver outputs
- Digital Inputs



Analogics Tech India Limited, an ISO 9001:2000 company, specialized in design, development and Manufacturing of wide range of products for Power Sector. Analogics has the track record of providing state-of-the-art product range and turnkey projects various the electricity utilities in the country. Analogics has a market share of about 95% for Spot Billing Machines and a major share in Common Meter Reading Instruments (CMRI) in India. With the profound reputation, Analogics takes pride in quick deployment of innovative and cutting edge solutions.

Roster scheduling is being introduced for the distribution of power to the rural agricultural loads, to ensure three-phase supply for 7 or 8 or 9 hours/day and single-phase supply throughout the day. The Distribution Rural Management System shall ensure the operation of the contactors for various busbars fed from LT side of the 3 phase distribution transformer. The equipment is a Multi Processor based monitoring, control & data login system for the three-phase distribution transformer. The system will monitor the voltages, currents information of the distribution transformers and the Roster schedules loaded into the memory. It will store the duration of three-phase and single-phase supply timings in a day. During single-phase period, if the three-phase supply is present, the system will automatically trips the circuit breaker and the event will be recorded in the memory. The duration of three phase power supply and single-phase power supply, date, time and schedules status will be displayed continuously in scroll mode. Facility is given to modify the schedule from the system keypad or (optionally) using the Hand Held Terminal with a password. The daily data like the duration of three-phase supply, single-phase supply and total power-on time will be stored in the memory up to 40 days. This data can be retrieved using the Hand Held Terminals or through GSM modem at remote management cell.

Features:

- Trips the contactor of the distribution transformer as per the schedules with auto compensation
- Facility for remote operation through PSTN / GSM modems (optional)
- Remote Operation of Transformers and data acquisition
- 100% Tamper proof operation in maintaining the schedules
- Password protection for preparing the schedules
- Rugged industrial casing conforms to IP55
- GSM modem for remote logging (optional)
- Hand Held Terminal for data downloading (optional)
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Rural Load Management System

Advantages

- Scheduling of feeders
- Uniform distribution of load on the Transformer
- Restricts the use of phase converters
- Recording of important events
- Generation of Distribution Transformer wise reports
- Transformer protection through temperature / load monitoring

Technical Specifications

- **Processor**
High Speed Processor at 18 MHz Clock speed
- **Display**
4 line by 20 character, Alphanumeric LCD display with back-light for better menus and parameters scrolling and for user friendly operations
- **Real Time Clock**
Real Time Clock with 20 year calendar with Battery Backup
- **Serial Port for Communication**
High Speed (57K baud) RS232 port for upload / download of data and also to communicate to the modem
- **Power Supply**
220V/110V DC from substations battery (or optional 24V DC)
- **Key Board**
24 Key (4 x 6) sealed Elastomeric with direct key operations
- **Relay Driver Outputs**
4 High Current relay outputs (Optional 6) to trip the contactors.
- **Memory**
 - i) Program Memory 64K (Flash)
 - ii) Data Memory 4MB (Expandable to 8MB)
- **Protection**
EMI, RF interface protection, input voltage fluctuations and transients protection
- **Environmental**
 - i) Operating Temperature : -5 to 65 C
 - ii) Relative humidity : 90% non-condensing
 - iii) IP-52 : Dust protected and immune to water spray / rain

Software

Rural Load Management System software is a front end, user friendly software, which will be very useful in collecting the data from various Distribution Transformers through telephone line or through hand held terminal. The collected data can be analyzed through systematic reports and powerful graphical presentation. The software also available for modifying the schedules etc.

Operating Voltage

Single phase AC supply from 85 V to 285 V.

Contact us for more information :

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