SMU Monitoring System

Key Features

- **Simplify Power Network Scanning**—through a single telephone line for up to 14 Lorain DGUs
- **Priority Alarm Reporting**—around-the-clock monitoring means immediate alarm reporting to a remote terminal
- **Easy Modular Configuration**—to match your current and future power monitoring requirements
- **User-Friendly and Secure**—with a simplified two level command
- **Rack or Wall Mounting**—rack mounts available for 19" (48.26cm) or 23" (58.42cm) widths

Description

The Lorain® SMU monitoring system is the ideal networking unit to provide centralized, single phone line monitoring and reporting of up to fourteen Data Gathering Units (DGUs) located up to 4,000' (1,219m) away within the same installation site. The compact SMU provides local and remote access to the DGUs and signals alarm status to a remote terminal through a single phone line.

The compact, easy-to-expand unit designed for +24 or -48 VDC systems can be quickly configured to your system requirements with front-access plug-in circuit cards. Start with the basic SMU, which consists of a circuit board cabinet, plug-in power supply, CPU circuit card, and a status (LED) circuit card. The status card displays include an power-on LED, SMU-failure LED and low-CPU-battery LED. A push-button lamp test feature is also provided for the above indicators. The CPU circuit card contains an internal battery that maintains clock and memory functions if input power to the SMU is lost. The CPU circuit card is also provided with a local visual indicator and extended relay contacts which activate in the event that this circuit card fails.

Application

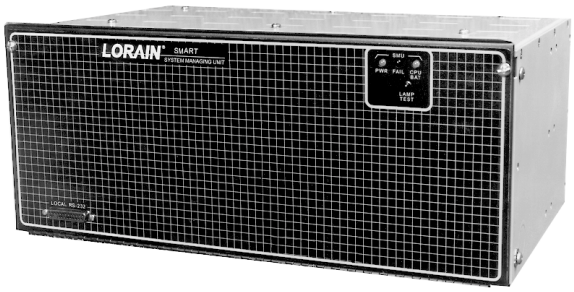
This compact monitoring system provides centralized, single point monitoring and reporting of large power systems with multiple Data Gathering Units within a single installation.

Additional Information

For additional specifications, engineering and installation information, specify model SMU monitoring system, spec. number 586501800.

Specifications

Plug-In Interface Circuit Cards
Complete the data gathering network by interfacing the DGUs and the SMU with separately ordered function-oriented circuit cards which can be front-access inserted into the SMU cabinet. Twenty-one card positions are provided to accommodate current and future expansion requirements. The following selection of circuit cards and assemblies has been application designed to match a broad range of DGU/SMU system management functions.



Local Terminal Interface
This interface provides local terminal accessibility through the SMU to a single or multiple DGUs. Remote terminal access can be achieved with a separate modem plug-in circuit card.

Marconi

SMU Monitoring System

Specifications (continued)

DGU Interface
This Communications Circuit Card plugs into the SMU to provide the interface between the DGUs and the single phone line SMU. The SMU cabinet will accept up to seven of these cards. Each card will interface to two DGUs.

Remote Terminal Interface (Modem)
The SMU (and DGUs via the SMU) can be accessed through a local or remote computer terminal. Alarm reporting from the various DGUs is done through remote computer terminals. Two optional internal 2,400 bits/s modems can be installed in the SMU. Each modem card is equipped with an RJ11 modular phone jack, and a two position terminal block. The first modem provides remote access of the SMU and DGUs from a computer terminal. In single modem applications, this modem also provides remote alarm reporting from the DGUs to remote terminals. The optional second modem provides for a connection of a second dedicated phone line for alarm reporting purposes only. This second modem (phone line) cannot be used to access the SMU and DGUs. If this modem or phone line should fail, the SMU would report alarms through the first modem. The SMU's design allows a user to enable or disable an automatic remote session termination (automatic log-off). Since alarm reporting usually has a higher priority than polling, a user can enable the automatic log-off feature which terminates a remote polling session when one of the DGUs needs to issue a high priority report. When the automatic log-off feature is disabled, a remote polling session will not be interrupted for reporting processing. In single modem SMU configurations, all reports will be processed after the remote polling session is manually terminated.

System Management Commands
The user-friendly Lorain SMU can be user-accessed with two command levels. After the initial password log-on procedure is completed, a second password is demanded to assure proper, authorized programming. Following are the types of commands recognized by the SMU.

DGU Interactive Commands
Here the user enters the assigned number of the DGU that he/she wishes to access. The SMU provides a direct connection between the user and the requested DGU. After a DGU log-on, the user can issue commands to that specific DGU.

DGU Global Commands
All DGUs can be reached through global commands. A specific DGU interrogation command is sent from the user to the SMU, which in turn relays the command to each DGU in the system and provides feedback data to the user.

SMU Commands
This command level is used to access the SMU to gain information such as a listing of all installed SMU circuit cards, date and time, available commands, logging off, and a listing of pending report status of the DGUs. A detailed instruction manual is provided to assure easy installation and programming of the Lorain SMU.

Physical Characteristics
Mounting: Universal mounting brackets for 19" (48.26cm) or 23" (58.42cm) relay rack or wall mounting. Brackets can also be positioned for 5" (12.7cm) or 6" (15.24cm) front projection or front flush mounting in relay rack or box framework assemblies.
Cooling: Convection cooled with top and bottom ventilation provisions in the cabinet.
Dimensions:
Height: 7" (17.78cm)
Width: 19" (48.26cm) or 23" (58.42cm)
Depth: 10.13" (25.72cm)

www.marconi.com/power
Marconi Communications
1122 F Street
Lorain, OH 44052
800-800-1280
Fax: 440-246-4876

Lorain® is a trademark of Marconi Communications Inc.
© 2000 Marconi Communications Inc.
Printed in the USA. All rights reserved. Any unauthorized reproduction or transmission without the prior consent of Marconi Communications Inc. is prohibited.