

C&D TECHNOLOGIES

Power Solutions

GUARDIAN-XP

Remote monitoring and control system



PRODUCT DESCRIPTION

The continual reduction in personnel in telecommunications centers and the need to reduce operating and provisioning costs, while improving the reliability of the telecommunications network, all contribute to make the Guardian-XP the ideal basic tool required for the intelligent management of telecommunications sites.

The Guardian-XP is designed to be used in various applications such as: remote monitoring and control of power plants, battery strings, uninterruptible power systems, motor, emergency generator sets, AC supply cabinets, auxiliary plants (ringing, DC converters, etc.) alarm systems and environmental conditions.

With its wide input capacity (12 analog channels and 16 binary input channels) and its numerous software functions, the Guardian-XP monitors to detect disturbances or abnormal conditions. Upon detection of such events, the Guardian-XP can report it locally (12 relay output channels) or remotely (12 automatic call-outs). Relay output can also be used to perform control functions.

The Guardian-XP is a tool designed for personnel involved with the surveillance and maintenance of telecommunications sites as well as provisioners seeking true statistics about the performance and requirements of equipment in service.

ADVANTAGES

- Remote monitoring lets you decide from a remote location whether emergency corrective action is required, thus providing better management of travel expenses.
- The Guardian-XP can be accessed from a remote location either by phone (synthesized voice) or via a computer terminal for real-time access to the information in the database.
- It reports locally or remotely any disturbance or malfunction in the equipment being monitored.
- The storage of statistics lets the user do a complete analysis of the performance of critical system parameters such as voltage, current, temperature, humidity, wind speed, etc. in order to perform preventive/corrective action before problems turn into crisis.
- Allows schedule mechanization for periodic verifications, reducing maintenance costs.
- By configuring several Guardian-XP applications into a local network, all the requirements for the remote monitoring, control and alarms of a site can be integrated.

FUNCTIONAL SPECIFICATIONS

Input/Output

- 12 Analog Channels
- 16 Binary Channels
- 12 Relay Output Channels
- 1 RS-232 serial communications port, Hayes Compatible
- 1 RS-485 serial communications
- 1 Modem Communications port (300,1200 and 2400 Baud)
- 1 Diaplay panel e/w front access buttons

Software

- 12 automatic call-outs with programmable sequencing
- Compiles 3 statistics files: Daily, Peak and Detailed
- 256 entries in the diagnostic files for chronological compilation of alarms
- 4 thresholds (2 high, 2 lows) for each analog channel
- 2 programmable algorithms for equalization (automatic and cyclic)
- Up to 22 (min 8) virtual channels using simple arithmetic operations
- Upload/download command for system backup or restoration of system parameters

General

- Synthesized voice message system for access by telephone set
- Can network up to 32 units via the RS-485 serial link
- Wall or rack (19" or 23") mounting
- The Guardian-XP can be completely reprogrammed by means of remote link

CERTIFICATION

- UL 1459
- CSA C22.2 #225
- DOC CS-03, Issue 7
ICES-003, Issue 1 for Class A (EMI)
- FCC Part 68, subpart D
Part 15, subpart B for Class A (EMI)

COMPATIBILITY

- Modem: Bell 103, 212A,
CCITT V.21, V.22, V.22bis

TECHNICAL SPECIFICATIONS

Electrical

- Input: ± 12 VDC, ± 24 VDC,
 ± 48 VDC and ± 130 VDC
- Current (respectively) 1.3 ADC, 600
mADC, 300 mADC, and 110 mADC

Mechanical

- Height 4.5 cm (1.75")
- Width 28 cm (11")
- Depth 22.2 cm (8.75")
- Weight 2.8kg (6.2 lbs)
- Color ANSI 61 Grey

Environmental

- Operating Temperature Range:
 -40°C to $+65^{\circ}\text{C}$
- Storage Temperature Range:
 -40°C to $+70^{\circ}\text{C}$

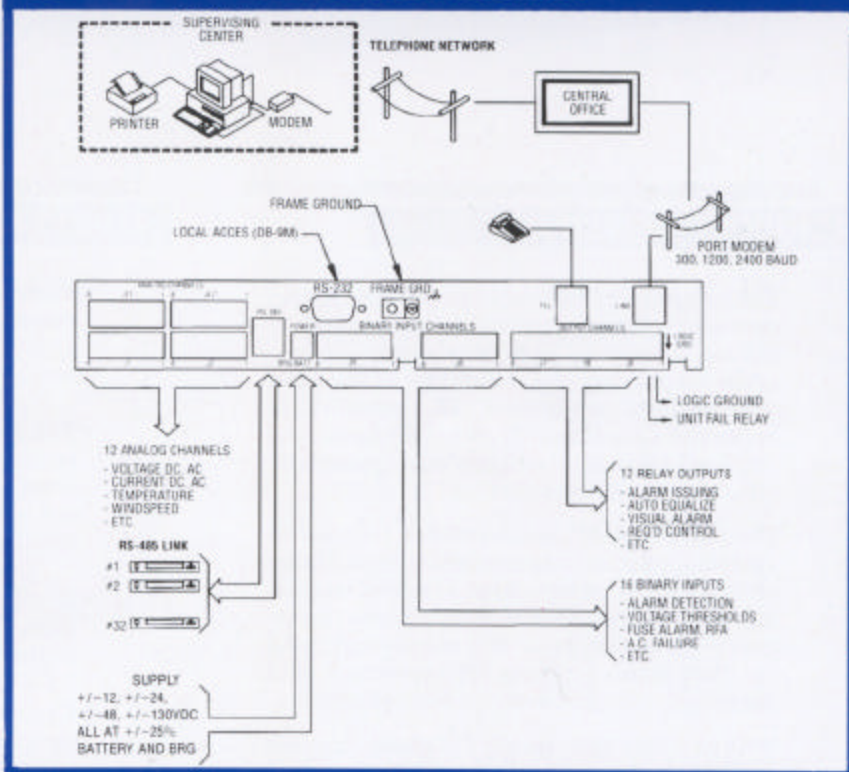
ACCESSORY LIST

Refer to Data Sheet 10-502

ORDERING INFORMATION AND CONFIGURATION GUIDE

Refer to Data Sheet 10-503

GUARDIAN-XP TYPICAL SYSTEM CONFIGURATION



For Additional Information

For more information on the Guardian series of products and how to order, please contact your local C&D Technologies representative.

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