

Technical Reference

Capstone Remote Monitoring System (User Edition)

This document presents the control and monitoring features for the User Edition Capstone Remote Monitoring System (CRMS) software.

CRMS provides dispatch, control, monitoring, trending, E-mail alarming, data logging, and automation for Capstone MicroTurbines.

Chapter 2: CRMS Overview

This chapter presents an overview of the Capstone Remote Monitoring System (CRMS) software.

This chapter presents a general description, hardware requirements, and the conventions used within this document.



General Description

CRMS is compatible with Windows® 98, Windows NT, Windows ME, Windows 2000, and Windows XP. CRMS runs on standard desktop or laptop computers. CRMS User Edition has the following features:

- Password Protection
- Communicates locally (through RS232 serial port) or remotely (through modem or TCP/IP connection) with up to 100 Micro Turbines
- Customizable desktop displays up to 100 MicroTurbine control panels, strip charts, trend graphs, event alarms, and other control panels. Uses simple "drag and drop" interface, toolbar, and functional key controls
- Scheduled modem and TCP/IP connection for automated and scheduled MicroTurbine operation
- Automated E-Mail alarming
- Stand Alone and User Protective Relay Settings
- MultiPac Operation and Control
- Micro Turbine and Power Server Input/Output Settings
- Data Logging and file management system. Real-time digital and strip chart displays
- Scheduler automatically starts, stops, and commands power to the MicroTurbine locally or remotely
- Power meter monitoring and control for load management and reverse power protection
- Event monitor logs starts, stops, and faults

Hardware Requirements

The following hardware is required for CRMS and for communication with the MicroTurbine:

Minimum Hardware Requirements

- PC 300 MHz Pentium Processor
- 128 MB RAM Memory
- VGA 480x640 Monitor (16 bit colors)
- Windows 98/NT/ME/XP/2000
- 100 MB Free hard drive space (data saving)
- Serial port (or USB port) for local communication
- Hayes compatible Modem for remote communication through phone connection
- Network adapter for remote communication through TCP/IP connection
- CD ROM and Mouse

Recommended Hardware Requirements

- 600 MHz Pentium (or better) Processor
- 256 MB Main Memory
- SVGA 800x600 Monitor (256 bit colors)
- Windows 98/NT/ME/XP/2000
- 200 MB Free hard drive space. Additional memory may be required for saving large data or graph files
- Serial port (or USB port) for local communication
- Hayes-compatible modem for remote communication through phone connection
- Network adapter for remote communication through TCP/IP connection
- CD ROM and Mouse

Conventions Used in this Document

The typical conventions as used throughout this document are presented in Table 2-1.

Table 2-1. Document Conventions

Item	Convention
Bold	Bold denotes text or characters you should literally enter from the keyboard. This font is also used for the proper names of disk drives, paths, directories, and file names.
[Path]	Square brackets indicate nested menu items and dialog box options to a final action. The sequence [Start] [Programs] [Capstone CRMS] directs you to select Start item, select Programs item, and finally, select Capstone CRMS item.
Paths	Paths in this chapter are denoted by backslashes (\) to separate drive names, directories, and files, as in the following path: Drive:\dirname1\dirname2\myfile