WinMills *by Eclectic Concepts*
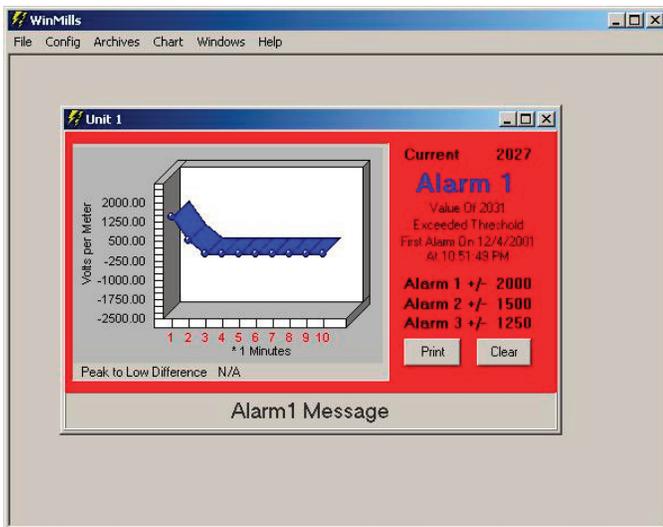
Software for Electric Field Mills

WinMills, WinMills-LT and WebMills, are the result of working closely with atmospheric scientists, Field Mill design engineers, and ultimately field personnel responsible for interpreting and using Field Mill data daily for risk management decisions to create a customizable multifunctional tool capable of collecting, processing, displaying, notifying, and archiving data produced by Electric Field Mills.

Electric Field Mills have become the system of choice for mission critical and sensitive operations as reliance on monitoring the buildup of the electrostatic charge potential in the atmosphere has become accepted as the best practice for the advance warning of a potential damaging local lightning strike.

Display

Complete flexibility is afforded the end user to assist in creating a display that focuses on key information of interest for the given application.

Screen layout including visual representation, and color choices along with user definable data scaling and data averaging are combined with unparalleled alarm control features to provide total flexibility and user friendliness.

Alarm Notification Screen (Courtesy Eclectic Concepts)

Alarming Capability

Visual and audible alarms can be triggered when predefined user threat level thresholds are exceeded. Monitoring up to three threat levels per Mill affords maximum flexibility and input for critical decisions. Automatic screen state change (color), audible alarms, and email notification capabilities combine to ensure that threat level information is provided as it occurs, to ensure maximum time to respond as necessary.
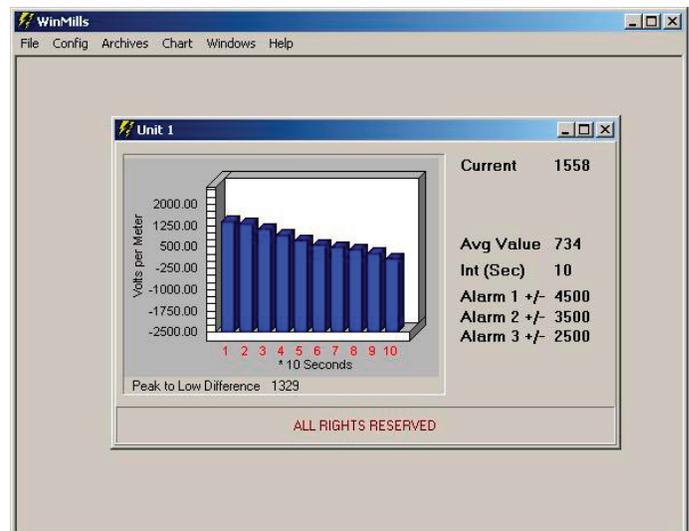
Archiving

Field Mill Data, system status, and alarm state, of each Field Mill or network of Field Mills is stored in an ODBC compliant database for future needs. Additional analysis and review can be accomplished using the export feature to supported spreadsheet based programs such as Microsoft® Excel®

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Single Mill Display (Courtesy Eclectic Concepts)

WinMills-LT

WinMills-LT is for operations that have one or two mills and where the area of coverage is localized.

WebMills™ Networking Software

This package allows the data to be displayed to all authorized personnel using links to the software that are capable of interfacing with a customer's Inter/Intranet communications browser.

Technical Specifications

Data Display

- Near real-time display of current Field Mill data.
- Multiple Mills can be viewed within a single window panel.
- Management of color-key used for each alarm condition for total control over look and feel of the display.
- User definable data scale and data averaging schemes.
- Access to Windows® graphing forms such as bar, point-to-point, ribbon and 3D styles.
- System Status Notification
- User Definable Alarm(s) Control
- User Definable E-mail Notification setup
- Data Archiving and Analysis

Alarm Capabilities

- Pop-up display of applicable Field Mill whenever an alarm condition is attained.
- Control of visual and audible output associated with each alarm condition.
- Voltage Deviation Alarms for those who need to monitor electrostatic stability prior to returning to normal operations.
- E-mail notification of all alarm activities.
- Single E-mail is sent to a user-defined SMTP account which could be a single person or a group of persons. Mail defines the FM and text message or condition defined within the alarm condition.
- Three user-defined alarm settings per FM.
- Universal alarm time-out setting.
- Active on/off control for each alarm setting.
- User controlled on-screen text message for establishing alarm status or action to be taken in response to the alarm.

System Requirements

The following items reflect the minimum requirements that are necessary within a user provided PC to operate WinMills.

Operating System

WinMills® software is designed for use with Microsoft® operating systems, specifically, Windows® 95 / 98 / NT / 2000 and XP. (Note: The software also supports any Windows® 95/NT compatible sound cards and printers.

Hardware.

IBM compatible Pentium II or greater, with 128MB of RAM, and a hard drive of 500 MB or larger.
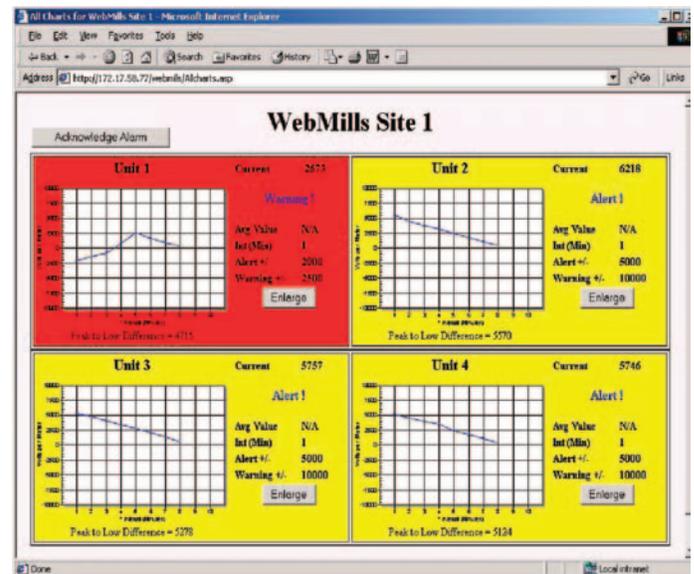
Ingest of data (digital signal) is accomplished via a digital communications port assigned to each FM.

If an analog signal is used, an ADAC A to D converter card is required.

WebMills™ Networking Requirements.

In addition to the OS and hardware requirements listed above, the following additional requirements must be met to permit operation of WebMills™.

- Internet Information Services version 4.0 or higher.

- The network clients PC will need Netscape 4.7 or greater with a plug-in for aif files or Internet Explorer 5.X or greater.

Multiple Mills Displayed (Courtesy Eclectic Concepts)

Customer List Includes:

- Los Alamos National Lab
- Naval Weapons Station Pearl Harbor
- US Naval Air Warfare Center China Lake
- Naval Station Pt. Mugu

Contact Information

Sales Inquiries
Company Web Site .... www.missioninstruments.com

Customer Support .... Eclectic Concepts, 520-927-0408
www.eclecticconcepts.com

References

Upon Request

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