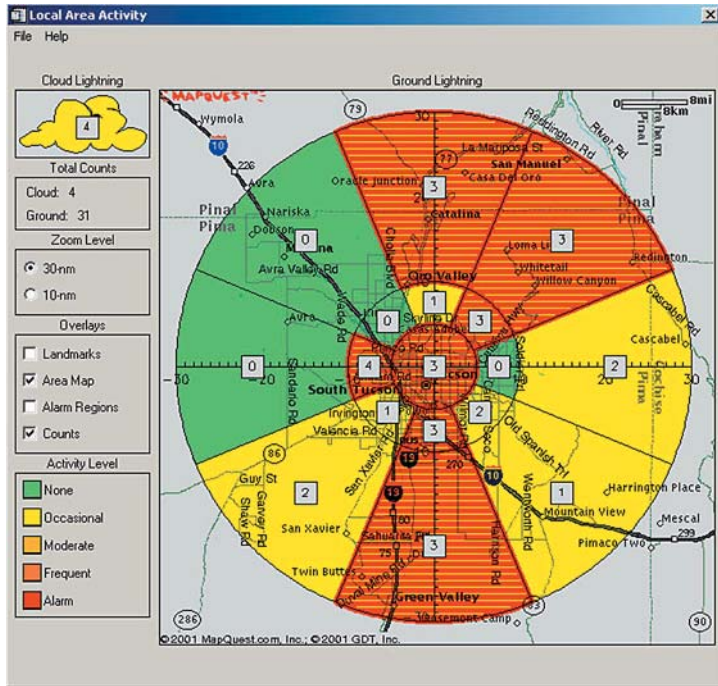


Vaisala ALARM Automated Lightning Alert and Risk Management System



Automated, easy-to-use display of approaching and overhead lightning threat



Vaisala ALARM displays cloud and cloud-to-ground lightning information from Vaisala TSS 928[™] Thunderstorm Sensor



Vaisala ALARM displays electric field intensity measurements from up to 7 Vaisala EFM550 Electric Field Mills

MANAGE LIGHTNING RISK WITH LIGHTNING THREAT DISPLAY AND AUTOMATED WARNINGS

- Cloud-to-ground lightning activity shown in three ranges and in directional octants when used with a Vaisala TSS 928[™] sensor
- Cloud lightning counts when used with a Vaisala TSS 928[™] sensor
- Electric field intensity measurements when used with up to seven Vaisala EFM550 sensors
- Displays data within a 30-nautical mile (56-km) radius around the location
- Map overlays

CUSTOM ALARM SETTINGS

- Set alarms for specific lightning activity levels in each range and directional octant and for cloud lightning
- Set alarms for unsafe electric field intensity levels
- Choice of automatic audible, visual and e-mail | message alarms
- Send alarm messages to any e-mail-enabled cell phone or pager
- Logically combine cloud-to-ground, cloud and electric field intensity alarms for complete customization for unique, local environments

VAISALA ALARM FEATURES AND BENEFITS

- Provides lightning early warning that can save lives
- Automates actions, such as alarms, notifications, and switches
- Objective, no interpretation necessary
- Data archiving for replay option

OPTIONAL AUTOMATIC RELAYS

- Trigger sirens or beacons
- Switch generators on and off
- Switch off vulnerable equipment
- Up to eight relays available

Technical data

Summary

Vaisala ALARM displays electric field intensity measurements from up to seven Vaisala EFM550 Electric Field Mills and real-time lightning flash data from one Vaisala TSS 928™ Thunderstorm Sensor. Vaisala ALARM system includes a personal computer, network card, software, color monitor and power strip with surge protection.

Hardware Requirements

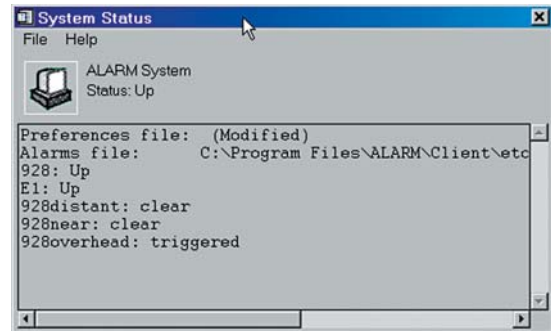
Personal Computer	Desktop
Processor	Pentium® III 750 MHz (minimum 500 MHz)
RAM	256 MB
Hard Drive Space	20 GB
Ports	2 serial
Monitor	17" (choose from standard and flat screen options)
Resolution	1024 x 768 pixels (or higher)
Color Depth	24 bit
Peripherals	CD-ROM drive, floppy drive, surge suppressing power strip

Operating System

Microsoft Windows® 2000 (Service Pak 6.0)
Windows NT™ (Service Pak 2.0)

Communications

The standard data link between the Vaisala ALARM system and Vaisala EFM550 and Vaisala TSS 928™ is by direct serial connection via two RS-232 ports.



System status window shows the status of all sensors and the status of all alarms.

Communications Options

Communications card (32-bit PCI, 8 serial ports)

For connecting to sensors within 10,000 feet of the system, communications hardware is an RS-232 cable, an RS-232/RS-422 interface, and an RS-422 cable.

Other configurations are available for distances exceeding 10,000 feet.

Additional Options

Relay card (32-bit PCI, eight outputs; termination card and connecting cable)

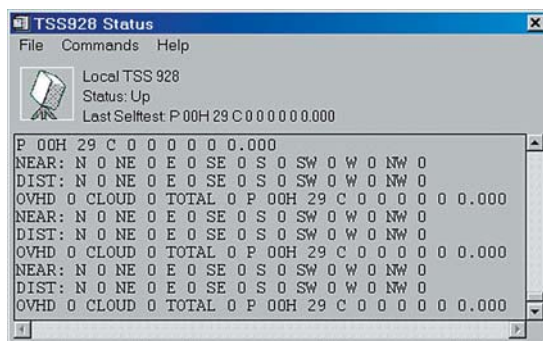
UPS

APC 1000 VA, 120V or 240V

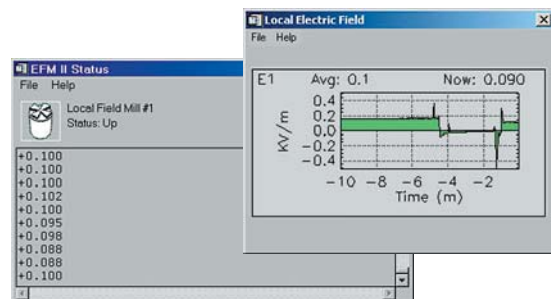
Battery pack for UPS extended backup

Support Services

Vaisala ALARM system training can be tailored to your specific needs. Technical support is available online and via telephone, e-mail and fax. Contact your sales representative for details.



Vaisala TSS 928™ status window shows whether sensor passed self test and shows current flash counts in each octant and ring. "Commands" feature allows user to communicate with the sensor.



Two windows show Vaisala EFM 550 information: view current measurements numerically and graphically.



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