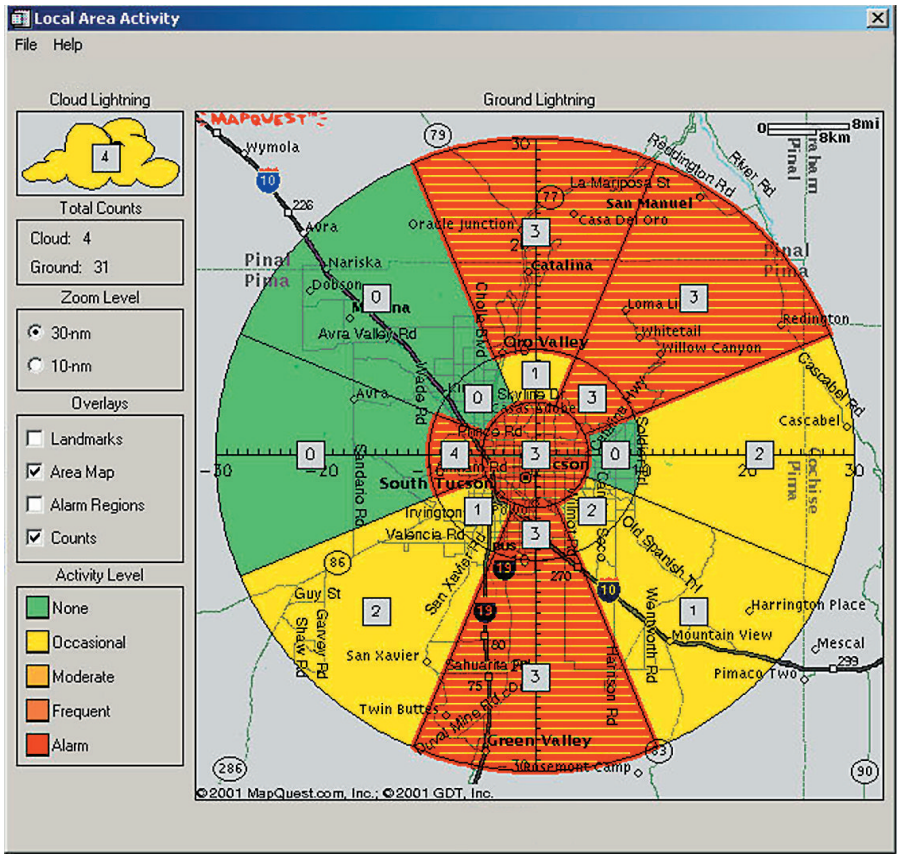
VAISALA

ALARM Automated Lightning Alert and Risk Management System



Features

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

Automated Lightning Alert and Risk Management System is an automated, easy-to-use display of approaching and overhead lightning threats.

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 local lightning sensor
- Cloud lightning counts when used with a Vaisala local lightning sensor
- Electric field intensity measurements when used with up to 7 Vaisala sensors
- Displays data within a 30 nmi (56 km) radius around the location
- Map overlays

Optional Automatic Relays

- Trigger sirens or beacons
- Switch generators on and off
- Switch off vulnerable equipment
- Up to 8 relays available

ALARM displays electric field intensity measurements from up to 7 Vaisala electric field mills.

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 levels
- Choice of automatic audible, visual and e-mail message alarms
- Send alarm messages to any e-mail-enabled cell phone
- Combine cloud-to-ground, cloud, and electric field intensity alarms for complete customization for unique local environments

ALARM displays cloud and cloud-to-ground lightning information from Vaisala local lightning Thunderstorm Sensor

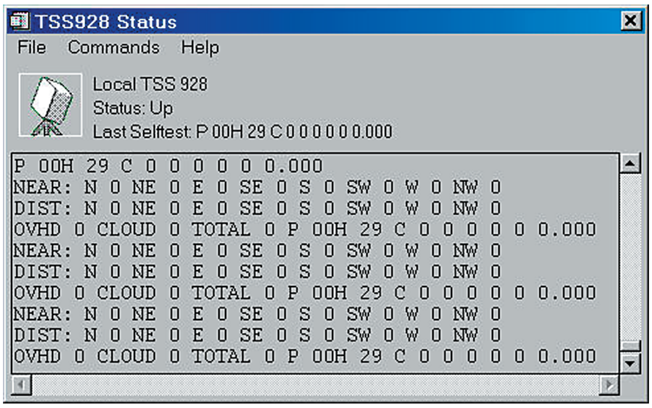
Technical Data

Summary

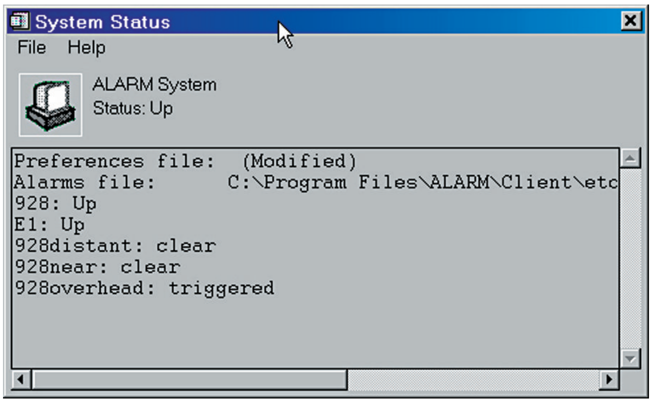
Vaisala ALARM displays electric field measurements from up to 7 Vaisala electric field mills and real-time lightning flash data from 1 Vaisala local lightning Thunderstorm Sensor. Vaisala ALARM system includes a personal computer, network card, software, color monitor, and power strip with surge protection.

Minimum System Requirements

Computer	Desktop
Processor	Pentium® III 750 MHz (min. 500 MHz)
Operating system	Microsoft Windows XP (SP 3.0) Windows 7 (SP 1.0)
Memory	256 MB RAM
Hard disk space	20 GB
Ports	2 serial
Monitor	17 in (choose from standard and flat screen options)
Resolution	1024 × 768 or higher
Color depth	24-bit
Peripherals	CD-ROM drive Floppy drive Surge-suppressing power strip



Vaisala local lightning 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.



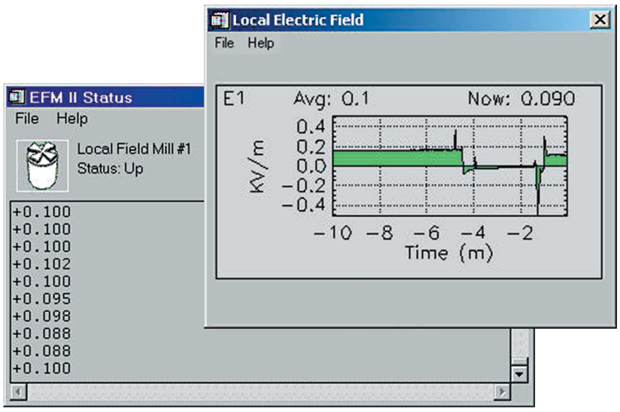
System status window shows the status of all sensors and the status of all alarms.

Inputs and Outputs

Communications	The standard data link between the Vaisala ALARM system and Vaisala electric field mills and Vaisala local lightning is by direct serial connection via 2 RS-232 ports.
Communications Options	
Communications card (32-bit PCI, 8 serial ports)	
Communications hardware for connecting to sensors within 10 000 ft (3 km) of the system	RS-232 cable RS-232/RS-422 interface RS-422 cable
Other configurations are available for distances exceeding 10 000 ft (3 km).	
Additional Options	
Relay card	32-bit PCI, 8 outputs Termination card and connecting cable
UPS	APC 1000 VA, 120 V, or 240 V 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 and e-mail. Contact your sales representative for details.



Two windows show Vaisala electric field mills information: view current measurements numerically and graphically.

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