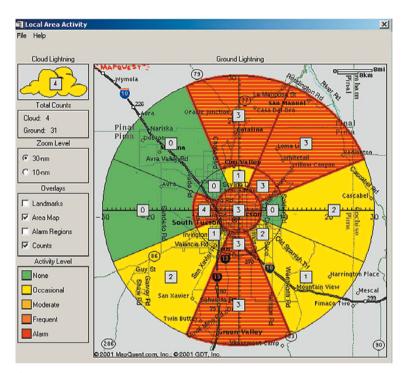
VAISALA www.vaisala.com

Vaisala ALARM Automated Lightning Alert and Risk Management System



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

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 seven Vaisala 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 levels
- Choice of automatic audible, visual and e-mail message alarms
- Send alarm messages to any e-mailenabled cell phone or pager
- Logically combine cloud-to-ground, cloud and electric field intensity alarms for complete customization for unique local environments

Optional Automatic Relays

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



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



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

Features/Benefits

- Provides lightning early 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

Technical Data

Summary

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

Hardware Requirements

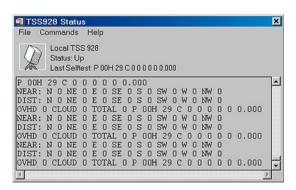
Personal Compu	iter Desktop
Processor	Pentium [®] III 750 MHz (minimum 500 MHz)
RAM	256 MB
Hard Drive Spac	e 20 GB
Ports	2 serial
Monitor	17" (choose from standard and flat screen options)
Resolution	1024 x 768 pixels (or higher)
Color Depth	24 bit
Peripherals	CD-ROM drive, floppy drive, surge suppressing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

Operating System

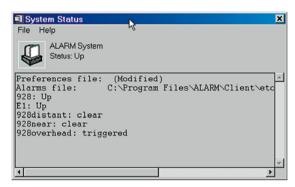
Microsoft Windows XP (SP 3.0), Windows 7 (SP 1.0)

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 two RS-232 ports.



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.

Communications Options

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

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

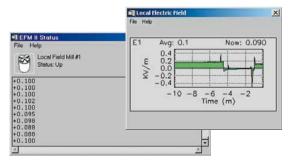
Other configurations are available for distances exceeding 10,000 feet.

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.



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



For more information, visit www.vaisala.com or contact us at sales@vaisala.com

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