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## **SIGALARM** High Voltage Power Line Proximity Warning System

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System goes to maximum sensitivity when first activated

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Entire length of the mast --- from tip to base --- is protected

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Provides warning of lightning

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The future never sounded so good



Power lines have always been a hazard to personnel operating or working around equipment with booms or extensions that have the capability of reaching power lines. The Hilomast range of telescopic masts and lattice masts manufactured by SMC are typical of such equipment. While contact with overhead high-voltage lines represents only 5% of total electrical accidents, it is responsible for approximately 45% of the fatalities. Most of these accidents could have been avoided by the proper installation and use of a high-voltage proximity warning system such as SIGALARM. In fact, during the past twenty-five years there has never been a single injury or accident involving equipment equipped with a SIGALARM that is installed and adjusted properly. SIGALARM is a patented, solid state electronic safety system used for detecting the electrostatic field of any AC power line. It provides both audible and visual warning signals to alert the operator and attendant ground personnel when the mast comes within proximity of an energized high-voltage power line.

Power lines are not easily observed by the equipment operator and supporting work crews because:

- Attention is directed or diverted to the other activities. (Operational personnel on the ground monitoring on communication equipment.)
- The power lines are above the operating personnel and outside normal functional range of vision. (People generally are looking horizontally or towards the ground, not looking upwards.)
- Visual judgement of clearance between extended masts and power lines is subject to error. (Against a bright sky, it is difficult for a viewer on the ground to correctly gauge the distance between a power line and a mast.)
- The power lines may be camouflaged. (The viewer is unable to see the lines against a background of trees, buildings, etc.)
- Virtually all fatal electrocutions are the result of equipment being unintentionally brought into contact with the power lines. These occurrences can be reduced dramatically by using SIGALARM's proximity alarm systems. A SIGALARM system is an "electronic eye" that serves as a backup operational aid.

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## APPLICATIONS

The **SIGALARM** system is at home in many working situations. Below you will find the most common applications for SIGALARM. If you have questions about using SIGALARM in a different application, just send us an e-mail.

- Broadcast: vehicles for electronic news gathering and transmission monitoring
- Environmental: conditions monitoring vehicles or trailers
- Communications: survey vehicles or trailers
- Military: field, trailer or container mounted communication masts
- Aerial Photography
- Emergency Services: communications and lighting masts, ladders and platforms
- Construction: cranes and power diggers etc.

Just about anything that can reach the power lines.

## SPECIAL FEATURES

These features make SIGALARM the obvious choice when it comes to protecting yourself and the people you work with. They are features that make the SIGALARM easy to use, so everyone can be safe with minimal training.

- System goes to maximum sensitivity when first activated.
- The system can be activated automatically at equipment start-up, or by use of the power switch on the control panel.
- Entire length of the mast --- from tip to base --- is protected. Any part of the mast that enters the warning zone will set off the alarm.
- Complete system test function tests and confirms the alarm sensing circuitry, antenna, alarm horn, and alarm light. The operator can test the entire system anytime he desires.
- No false alarms due to external interference.
- Provides warning of lightning so that operations can be discontinued until the electrical storm has passed. Simple adjustment of warning zone. The operator doesn't need to know voltage in the power line. The system can be used to confirm power line shut off.
- Easy installation



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