

### FINAL CHECKOUT/TESTING:

Qualified personnel must test for proper operation of the entire system including the notification appliances after installation and before turning it over to the end user/owner.

Unless otherwise noted in the specific installation instructions, notification appliances do not have adjustments for control of output. DO NOT ATTEMPT TO ADJUST FIXED FACTORY SETTINGS. Malfunctioning units should be replaced immediately. Do not attempt to repair malfunctioning units. Malfunctioning units should be returned for factory repair or replacement.

**⚠ WARNING - BE CERTAIN THAT ALL SYSTEMS ARE OPERATING CORRECTLY. IF NOTIFICATION APPLIANCES CANNOT BE READILY SEEN OR HEARD WITHIN THE PROTECTED AREAS, IT IS NECESSARY TO INCREASE THE NUMBER AND/OR SOUND AND LIGHT OUTPUT INTENSITY OF NOTIFICATION APPLIANCES WITHIN THOSE AREAS SO THAT THEY ARE SEEN AND HEARD WHEN ACTIVATED.**

**⚠ CAUTION - Do not stand close to the notification appliance when the alarm is operating. Too much exposure at close range may be harmful to your hearing and/or your eyesight.**

A copy of this entire GENERAL INFORMATION and the enclosed specific installation instruction sheets must be given to the end user/owner and all people who maintain the system and test the system and these notification appliances. We STRONGLY RECOMMEND that they read and understand the entire GENERAL INFORMATION and are taught the necessary procedures before turning over the system.

### PERIODIC TESTING:

IMPORTANT - YOUR PROTECTIVE SIGNALING SYSTEM REQUIRES PERIODIC MAINTENANCE. THE SYSTEM, INCLUDING ALL NOTIFICATION APPLIANCES, REQUIRES PERIODIC TESTING.

**⚠ WARNING - FOLLOW ALL PROCEDURES IN ACCORDANCE WITH THE INSTALLER'S AND MANUFACTURER'S INSTRUCTIONS. FAILURE TO MAINTAIN AND/OR TEST THE EQUIPMENT CAN RESULT IN EQUIPMENT FAILURE THAT CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH.**

**⚠ WARNING - TURN OFF ALL POWER WHEN DOING SYSTEM MAINTENANCE.**

Obtain written instructions from the installer telling you when and how to do periodic system maintenance and testing of each piece of equipment.

Make sure personnel are properly trained to properly maintain the system and to properly test notification appliances. Keep written logs of all maintenance and testing.

**⚠ CAUTION - Never use water or steam or cleaning liquids or sprays on notification appliances as such use could cause damage to the appliance and/or impair its operational capacity.**

Notification appliances cannot last forever. Even though these appliances are made to last for ten years, the expected life of the fire alarm system, any of these parts could fail at any time and may need to be replaced.

SYSTEM TESTING, INCLUDING ALL NOTIFICATION APPLIANCES, MUST BE CONDUCTED AT LEAST TWICE EACH YEAR BY QUALIFIED PEOPLE TO ENSURE PROPER OPERATION OF ALL EQUIPMENT.

If the notification appliances are not working properly, immediately contact the installer and have all/any problems corrected immediately. Malfunctioning units should be replaced immediately. Do not attempt to repair malfunctioning units. Malfunctioning units should be returned for factory repair or replacement.

In the event you cannot contact the installer, contact manufacturer.

Refer to Installation section for WARNING on high voltage charges on some notification appliances (such as strobes).

Additional copies of this GENERAL INFORMATION sheet and specific installation instruction sheets for notification appliances may be obtained from manufacturer.

**SUPERSEDING GENERAL INFORMATION  
REPLACES ALL PREVIOUS GENERAL INFORMATION (08/94)**

## "GENERAL INFORMATION"

### GENERAL INFORMATION FOR THE PLACEMENT, LIMITATIONS, INSTALLATION, FINAL CHECKOUT, AND PERIODIC TESTING OF NOTIFICATION APPLIANCES

IMPORTANT - THESE INSTRUCTIONS MUST BE READ CAREFULLY BY THE INSTALLER BEFORE INSTALLATION AND ALSO BY THE PEOPLE WHO TEST, USE AND MAINTAIN THIS ALARM SYSTEM.

KEEP this entire GENERAL INFORMATION and the specific installation instructions AT THE CONTROL PANEL FOR FUTURE REFERENCE for the life of the system and make it available to all people who use it.

#### GENERAL:

These instructions contain important information about the notification appliance you are going to install.

**⚠ WARNING - FAILURE TO FOLLOW ALL SAFETY PRECAUTIONS AND INSTRUCTIONS CAN RESULT IN THE NOTIFICATION APPLIANCES NOT WORKING AND MAY RESULT IN SERIOUS LOSS OF PROPERTY AND LIFE.**

Purchasers who buy this notification appliance for installation by others must leave a copy of this information with the installer. A copy of this information is included with each notification appliance and is available from the manufacturer. The manufacturer's name and model number are on each notification appliance.

Notification appliances are intended to provide audible and/or visible warning indication of an alarm condition when activated by a protective signaling system. They do not sense any emergency condition or hazardous fires, but are only a part of the system that does sense such conditions. The notification appliance, when activated by a control panel, gives audible and/or visible notification of the alarm condition in response to a signal from the control panel.

Notification appliances WILL NOT WORK WITHOUT POWER.

Notification appliances are powered by the protective signaling system. If power is cut off for any reason, notification appliances will not provide the desired audible and/or visible warning. Backup power supplies are recommended for protective signaling systems.

Notification appliances are not a substitute for insurance. All users should have adequate levels of life and property insurance.

NOTIFICATION APPLIANCES must be used within their published specifications and in accordance with local, state and federal codes, regulations, and laws. NOTIFICATION APPLIANCES must be PROPERLY installed, maintained and operationally tested in accordance with these instructions at the time of installation and at least twice a year or more often as required by local, state and federal codes, regulations and laws. Installation and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

**⚠ WARNING: IF THE NOTIFICATION APPLIANCE SOUNDS AND/OR FLASHES, IT IS A WARNING OF A POSSIBLY SERIOUS SITUATION AND REQUIRES YOUR IMMEDIATE ATTENTION.**

## PLACEMENT:

The placement of notification appliances must conform to the requirements of sound engineering judgment and the latest NFPA standards and guidelines including, but not limited to, all appendices and amendments, and to those of the local authority having jurisdiction.

**Hazardous locations** - Unless otherwise noted in the specific instructions, these devices are not intended for use in hazardous locations as defined by the NEC and by the NFPA. Contact manufacturer for information on explosion-proof notification appliances designed for hazardous locations.

**WARNING - UNLESS OTHERWISE NOTED IN THE SPECIFIC INSTALLATION INSTRUCTIONS, THESE DEVICES ARE NOT INTENDED FOR USE IN HARSH ENVIRONMENTS.**

**Outdoor strobe products** - For outdoor installation, it is recommended that UL 1638 outdoor listed notification appliances be mounted in a location that minimizes prolonged exposure to rain, snow or direct sunlight. Exposure to the outdoor elements, including prolonged exposure to sunlight, can cause lens lettering to fade.

**WARNING - UL 1971 LISTED STROBE APPLIANCES ARE NOT LISTED FOR OUTDOOR USE.**

**Products labeled for a particular use** - If the appliance is labeled for a particular use (such as "Fire" or "Halon" lettering on a strobe lens) do not use it for other applications.

**AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE** - UL 1971 Listed strobe appliances are designed to meet or exceed ADA Accessibility Guidelines for Visual Alarms when installed in accordance with the latest NFPA 72 and ANSI 117.1 requirements.

**ADA HEIGHT RESTRICTIONS** - In accordance with ADA (Americans With Disabilities Act) requirements, under no circumstances may notification appliances be placed at a height less than 80 inches from the floor if they protrude more than 4 inches from the wall.

**WARNING - AUDIBLE SIGNALS MAY MASK MEDICAL EQUIPMENT MONITORING ALARMS.** Audible notification appliances are not recommended for use in areas where medical equipment monitoring alarms are in use. Such medical alarms may not be heard during periods when audible notification appliances have been activated. Where medical alarms are in use, the installation of visual notification appliances in highly visible locations is recommended.

### LIMITATIONS OF NOTIFICATION APPLIANCES:

**VISIBLE SIGNALS MAY NOT BE SEEN:** These visible notification appliances meet current Underwriters Laboratories' standards. The rated output of each appliance is identified in manufacturer's instructions as marked on each appliance. These visible signals are suitable for direct viewing and must be installed within an area where they can be seen by area occupants. The devices must not be installed in direct sunlight or areas of high light intensity where the visible signal might be disregarded or not seen. Light signals will be blocked or reduced by walls, doors, furniture, bed coverings and other obstacles which may temporarily or permanently impede the output of the visible notification appliance.

Light intensity is reduced by distance and may be too low to alert occupants, awake or asleep. The output of the visible notification appliance may not be sufficient to alert all occupants, especially those who are asleep, those whose eyes are covered or turned away from the light source or those who have recently used drugs or alcohol. THE VISIBLE SIGNAL MAY NOT BE SEEN BY THE VISUALLY IMPAIRED AND MAY NOT AWAKEN THE HEARING IMPAIRED.

**AUDIBLE SIGNALS MAY NOT BE HEARD:** The loudness of these notification appliances meet current Underwriters Laboratories' standards. The rated output of each appliance is identified in manufacturer's instructions and is marked on each appliance. Sound can be blocked or reduced by walls, doors, carpeting, wall covering, furniture, insulation, bed coverings and other obstacles which may temporarily or permanently impede the output of the audible notification appliance.

Sound is reduced by distance and masked by background noise. The output of the notification appliance may not be sufficient to alert all occupants, especially those who are asleep, those who have impaired hearing, those who are wearing devices which plug or cover the ears and those who have recently used drugs or alcohol. The devices may not be heard by an alert person if the signal is placed in an area which is isolated by a closed door, or is located on a different floor from the person in a hazardous situation or is placed too far away to be heard over ambient noise such as, but not limited to, running water, traffic, air conditioners, machinery or musical appliances. THE AUDIBLE SIGNAL MAY NOT BE HEARD BY PERSONS WHO ARE HEARING IMPAIRED.

**WARNING - IF NOTIFICATION APPLIANCES CAN NOT BE READILY SEEN OR HEARD WITHIN THE PROTECTED AREAS AS INTENDED, IT IS NECESSARY TO INCREASE THE NUMBER AND/OR SOUND AND LIGHT OUTPUT INTENSITY OF NOTIFICATION APPLIANCES WITHIN THOSE AREAS SO THAT THEY ARE SEEN AND HEARD WHEN ACTIVATED.**

Request that the local authority having jurisdiction inspect the proposed placement of the notification appliances and receive their approval.

## INSTALLATION:

The lives of people depend upon your safe installation of our products. Please read, understand and follow the enclosed specific installation instruction sheets supplied with each notification appliance for detailed wiring and other specifications.

**WARNING - SHUT OFF ALL POWER BEFORE STARTING THE INSTALLATION. ELECTRICAL SHOCK CAN CAUSE DEATH OR SERIOUS INJURY.**

**WARNING - SOME NOTIFICATION APPLIANCES (SUCH AS STROBES) STORE A HIGH VOLTAGE CHARGE, EVEN THOUGH POWER IS NOT CONNECTED, AND CAN CAUSE A SHOCK IF ELECTRICAL CIRCUITRY IS TOUCHED. SHOCK MAY BE DANGEROUS AND CAUSE INJURY OR DEATH. DO NOT TOUCH EXPOSED CIRCUITRY UNLESS THE CIRCUITRY HAS DISCHARGED FOR ONE HOUR AND A SAFE DISCHARGE PROCEDURE IS USED.**

Fire alarm notification appliances must be installed only with a LISTED compatible control panel in accordance with sound engineering judgment and the instructions provided by manufacturer.

Notification appliances will not work without a LISTED compatible control panel that controls the activation of the appliance and provides proper levels of voltage and current. The electrical ratings of the control panel must be compatible with the ratings of the notification appliance and the equipment must be properly powered and interconnected.

Refer to the installation instructions for wiring diagrams for in-out field wiring of multiple appliances to the control panel. Note polarity indications and wire gauge limits for wiring terminals.

**WARNING - DO NOT USE LOOPED WIRE UNDER SCREW TERMINALS OR T-TAPS ON LEAD WIRES OR OTHER CONNECTION MEANS WHICH WOULD DEFEAT SUPERVISION IF A WIRE DISLODGES.**

**WARNING - SOME APPLIANCES WORK ONLY WITH FILTERED DC VOLTAGE AND CANNOT BE USED WITH UNFILTERED FULL WAVE RECTIFIED AC VOLTAGE. REFER TO THE INSTALLATION INSTRUCTIONS FOR VOLTAGE RATINGS.**

**WARNING - SOME APPLIANCES HAVE AN INITIAL IN-RUSH CURRENT WHICH MUST BE SUPPLIED BY THE POWER SUPPLY TO ACTIVATE THE APPLIANCE. POWER SUPPLY RATINGS, FUSE RATINGS AND WIRE SPECS MUST BE COMPATIBLE WITH SPECIFIED IN-RUSH CURRENT. REFER TO THE INSTALLATION INSTRUCTIONS FOR IN-RUSH CURRENT RATINGS.**

**WARNING - THE WIRING USED FOR INTERCONNECTION MUST BE LARGE ENOUGH TO CARRY THE TOTAL CURRENT REQUIRED BY ALL APPLIANCES TO BE ACTIVATED WITHOUT EXCESSIVE VOLTAGE DROP. VOLTAGE DROPS FROM POWER SUPPLY LOADING AND WIRING RESISTANCE MUST BE WITHIN THE SPECIFIED OPERATING VOLTAGE OF THE APPLIANCE.**

**WARNING - THE MINIMUM VOLUME FOR ELECTRICAL BOXES DEPENDS ON THE NUMBER AND SIZE OF CONDUCTORS USED AS SPECIFIED BY THE NATIONAL ELECTRICAL CODE. BOXES LARGER THAN THOSE RECOMMENDED MAY BE REQUIRED TO COMPLY WITH NEC REQUIREMENTS DEPENDING ON THE WIRING USED. SELECT CONDUIT ENTRANCE AND FITTINGS FOR BACKBOXES TO ASSURE SUFFICIENT CLEARANCES.**

Refer to the installation instructions for recommended backboxes and mounting plates.

Make sure backboxes are not contaminated with dust or particles at any time and especially during construction activities. Dust can interfere with the operation and reduce the life of the notification appliance.

Never paint appliances. Paint can prevent the proper operation of many appliances.

Be careful not to damage vulnerable parts during installation, handling and during testing.