

SAFE T ALERT™

LONG LIFE 10 YEARS BATTERY OPERATED MINIATURE PHOTOELECTRIC SMOKE ALARM WITH HUSH FEATURE



MODEL : SA-866-EN



0086-CPR-638573



**BS
EN14604:2005
LICENSE NO:
KM 638574**

Main Features :

- Photoelectric Sensor for Slow Smouldering Fires
- Long Life Lithium Battery
- Miniature Size
- Hush Feature
- Power & Alarm Test Button
- Low Battery Warning
- Loud 85db alarm signal
- Supplied with wall plugs & screws
- Pre-warning fault signal

This manual contains important information on the correct installation and operation of your smoke alarm. Read this manual fully before attempting installation and retain for future reference.

SPECIFICATION

Power Source : 3V Lithium cells
 Operation Current : <20mA operation (In Alarm)
 Sensitivity to smoke : 0.08-0.18db/m
 Operation Temperature : 0°C-40°C
 Ambient Humidity : 10%-90%
 Horn Level : 85 Decibels at 3 metres
 Expected Battery Life : approx. 10 years
 Approval: Certified to BS EN14604:2005

INSTALLING THE SMOKE ALARM

This smoke alarm is a single station photoelectric alarm and should NOT be connected to other smoke alarms. If your dwelling is on a single story, for minimum protection you should fit an alarm in the hallway between the living areas (incl. Kitchens and sleeping areas. Place it as near to the living areas as possible and ensure the alarm is audible when the bedrooms are occupied. See Figure 1 for examples.

If your dwelling is multi-story, for minimum protection one alarm should be fitted at the bottom of the staircase with further alarms fitted on each upstairs landing. This includes basements but excludes crawl spaces and unfinished attics. See Figure 2 for examples.

NOTE: For maximum protection an alarm should be fitted in every room (except kitchen, bathroom and garage). DO NOT FIT AN ALARM IN THE KITCHEN or BATHROOM, as cooking fumes or steam may trigger the alarm. DO NOT FIT ALARM IN A GARAGE, as exhaust fumes are likely to set it off.

RECOMMENDED LOCATION OF ALARMS

Ceiling Mounting

Since hot smoke rises and spreads out, it is advisable to mount on a ceiling in a central position. Avoid areas where there is no air circulation. For example, corners of rooms and keep away from items which may prevent the free flow of air. Place the unit at least 300mm away from light fittings or decorative objects which might obstruct smoke / heat from entering the alarm. Keep at least 300mm away from walls. See Figure 3i.

Wall Mounting

Do not mount tight into the corners. Put the top edge of your smoke alarm between 150 and 300mm below the ceiling. Keep at least 300mm from room corners. See Figure 3i

Sloped Ceiling

In areas with sloping or peaked ceilings install your Smoke Alarm 900mm from the highest point measured horizontally because "dead air" at the apex may prevent smoke from reaching the unit. See Figure 3ii.

Avoid these locations:

- Situations where the temperature may fall below 0°C or rise above 40°C
- Humid areas such as bathrooms, kitchens, shower rooms where the relative humidity may exceed 90%
- Near a decorative object, door, light fitting, window moulding etc., that may prevent smoke or heat from entering the alarm.
- Fume filled environments such as garages. Exhaust gases may cause false alarms.
- Adjacent to or directly above hot components such as radiators or wall vents that can effect the direction of air currents.
- In very dusty or dirty environments such as workshops.

- Do not locate in insect infested areas. Insects and contamination on the Heat Alarm sensor can increase its response time.

FIGURE 1 – SINGLE STORY DWELLING

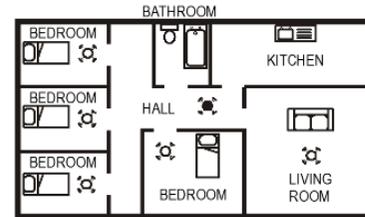
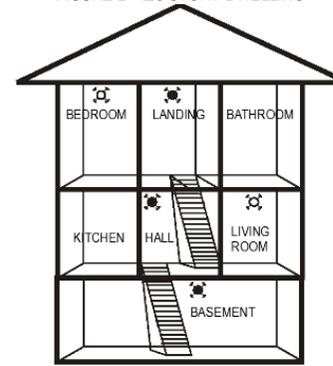
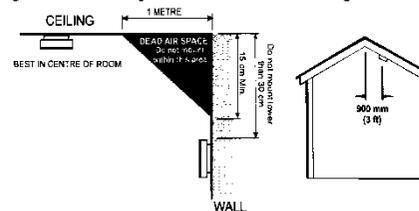


FIGURE 2 – 2/3 STORY DWELLING



KEY
 MAXIMUM PROTECTION
 MINIMUM PROTECTION

Figure 3i - Positioning the smoke / heat detector Figure 3ii



INSTALLING THE SMOKE ALARM

This smoke alarm is powered by battery and requires no additional wiring.

- Having established the mounting location ensure that there is no electrical wiring or pipe work in the area adjacent to the mounting surface.
- Take the mounting bracket and mark the two mounting hole locations.
- Drill holes in the positions marked.
- Insert wall plugs into the drilled holes.
- Screw mounting bracket to mounting surface. DO NOT OVER TIGHTEN.

- Assemble detector onto the mounting plate by aligning the two projections (A1) and (A2) on the mounting plate with the two keyhole slots in the detector.



Lock in position by giving a clockwise quarter turn. This clockwise turn turns on the sealed-in battery. i.e. the power on the device is turned on as soon as it is in the locked position.

- Test the alarm for correct operation using test directions.

RV / CARAVAN / BOAT INSTALLATION

WARNING: TEST SMOKE ALARM OPERATION AFTER VEHICLE / BOAT HAS BEEN IN STORAGE, BEFORE EACH TRIP, AND AT LEAST ONCE PER WEEK DURING USE. An identical marking is to be provided by the recreational vehicle / boat manufacturer that shall be permanent and located, visibly, within 24 inches (610mm) of the smoke alarm.

MAINTENANCE: The smoke alarm is virtually maintenance free. However, under dusty conditions, a vacuum hose may be used to clear the sensing chamber of dust.

MOBILE HOME INSTALLATION

For minimum protection, smoke alarms should be installed in compliance with H.U.D. Manufactured Home Construction Safety Standards, Title 24 CFR, Section 3280.208 and Section 3282. For additional protection, see Single Story Residence smoke alarm requirements/recommendation.

Note: For mobile homes built before 1978, install smoke alarms on inside walls between 4" and 12" from the ceiling (older mobile homes have little or no insulation in the ceiling). This is especially important if the ceiling is unusually hot or cold.

Install a smoke alarm inside each bedroom and in the hallway outside each separate sleeping area.

OPERATING YOUR SMOKE ALARM

Once the smoke alarm has been installed a small indicator light (LED), positioned beside the test button,

should flash approximately once a minute in normal operation. If smoke is detected the unit will emit a load pulsating alarm until the air is clear.

TESTING YOUR SMOKE ALARM

It is recommended that you test your smoke alarm once a week to ensure the detector is working correctly. Push and hold the test button for approximately 3 seconds. A loud pulsating alarm should sound to indicate the correct function. During the alarm condition the indicator light will flash quickly.

After installation and after reoccupation of the dwelling following a vacation etc, check all your alarms.

COMMON CAUSES AND AVOIDANCE OF FALSE ALARMS

The Smoke Alarm may be triggered by steam, condensation, normal smoke or fumes. Small insects getting into the smoke alarm chamber may cause intermittent alarms. Keep away from the sources to avoid nuisance alarms. (See "Areas to be avoided" in the "Positioning the smoke alarm" section.)

Hush or Silence Feature

This Smoke Alarm has a built-in Hush or Silence feature incorporated into the Test button. If cooking or other non-hazardous sources cause the unwanted alarm, it can be temporarily silenced by depressing the test button and holding for approximately 1 second. The alarm will enter a dormant period for 10 minutes. The red LED will flash every 10 seconds to indicate the sensitivity is reduced. At the end of the hush period the alarm will give two short beeps, the alarm will then reset to normal sensitivity. NOTE - If the smoke density increases during this period (i.e. from a fire) the unit will go into alarm mode.

LOW BATTERY WARNING

If the smoke detector emits a short 'beep' once every 40 seconds the battery is at the end of its life and this detector should be replaced immediately. This low voltage warning will be given for at least 30 days. If the red indicator light (LED) does not flash every 40 seconds then replace the whole smoke alarm unit.

BATTERY SEALED-IN NOT FOR REPLACEMENT

ACTION IN THE EVENT OF A FALSE ALARM

- If there is a false alarm, simply press the test / hush button on the cover to mute the unit for 10 minutes.
- Check the house carefully in case there is a small fire smoldering somewhere.
- Check whether there are some sources of smoke or fumes. You should get your family into a safe place before your investigation.
- If there are frequent nuisance/ false alarms it may be necessary to re-locate the device. If for some reason the alarm continues to give false alarm, the unit can be silenced by removing the batteries. If cleaning the alarm does not correct the problem it can be returned to the place where you bought it.

IN THE EVENT OF FIRE

- Leave the building as quickly as possible. Check room doors for heat or smoke. Do not open a hot door. Use an alternate escape route. Crawl along the floor, if possible, through a wet cloth or hold your breath. Do not stop to collect anything.
- Meet at a pre-arranged meeting place outside the dwelling and check everybody is there.
- Call the fire department from outside the building immediately. The fire department should be summoned regardless of the size of the fire.
- Do not go back inside a burning building and wait for the fire department to arrive.

MAINTAINING YOUR SMOKE ALARM

Clean your smoke alarm regularly to prevent dust build up. This can be done using a vacuum cleaner with the brush attachment. Clean gently around the front grilled section and sides. Never use water, cleaners or solvents since they may damage the smoke alarm.

When the battery is low, replace with a new smoke alarm.

If the alarm fails to operate currently, please send back to the address of manufacturer shown on the back label of the detector.

NOTE: THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING.

PRE-WARNING FAULT SIGNAL (YELLOW LED)

When there is neither fire nor smoke and the LED on front cover turns yellow, it means dust may have gotten inside or the unit cannot function properly for another reason. This is a pre-warning signal that the user should replace the unit with a new smoke alarm.

IMPORTANT SAFEGUARDS

Installation of your smoke alarm is only one step in your safety plan. Other important steps should be taken to further improve your safety:

- Install the smoke alarm properly, following this instruction manual
- Test your smoke alarm weekly
- Replace with a new smoke alarm immediately once depleted
- Do not smoke in bed
- Keep matches & lighters away from children
- Store flammable materials in a proper manner and never use them near naked flames or sparks
- Maintain emergency equipment such as Fire Extinguishers, escape ladders etc and ensure all occupants know how to use them correctly.

- Plan an escape route/s from your building in advance and ensure all occupants are aware of them. Re-enforce this awareness periodically through-out the year.
- Make sure escape routes remain free of any obstructions.
- **A warning that batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.**

WARNING!

IF THERE IS ANY QUESTION AS TO THE CAUSE OF AN ALARM IT SHOULD BE ASSUMED THAT THE ALARM IS DUE TO AN ACTUAL FIRE AND THE DWELLING SHOULD BE EVACUATED IMMEDIATELY.

THIS PRODUCT IS A SEALED UNIT AND CANNOT BE REPAIRED – IF THE UNIT IS TAMPERED WITH IT WILL INVALIDATE THE WARRANTY. IF THE UNIT IS FAULTY PLEASE RETURN IT TO YOUR ORIGINAL SUPPLIER WITH YOUR PROOF OF PURCHASE.

Note: NFPA 1192 requires the primary smoke alarm installed in RV's to be located "not within the separate sleeping areas." For additional protection install a smoke alarm in each sleeping area of your RV.

NFPA 1192: 6.3.3 Installation of Smoke Alarm. The required smoke alarm shall be installed in accordance with its listing but not within the separate sleeping areas.

One Year Limited Warranty

Marine Technologies, Inc. (MTI) warrants your MTI smoke alarm against all defects in material and workmanship for one (1) year from the date of purchase. This warranty applies only to the original consumer purchaser and only to equipment used in normal use and service. If this product is found to be defective, MTI's only obligation, and your exclusive remedy, is the repair or replacement of the product at MTI's discretion, provided that the product has not been damaged through misuse, abuse, accident, modifications, alteration, neglect or mishandling. This warranty shall not apply to any equipment that is found to have been improperly installed, set-up, or used in any way not in accordance with the detailed instructions supplied with the product. For repair or replacement, send the defective product to MTI Industries, Inc. 31632 N. Ellis Dr. #301, Volo, IL 60073, postage prepaid with a payment of \$8.00 to cover the costs of return postage and handling. You must provide a proof of purchase (receipt) along with the returned product.

MTI DOES NOT WARRANT AND SPECIFICALLY DISCLAIMS ANY WARRANTY, WHETHER EXPRESS OR IMPLIED OF FITNESS FOR A PARTICULAR PURPOSE OTHER THAN THE WARRANTY CONTAINED HEREIN. NO IMPLIED WARRANTY UNLESS SUCH LAW OTHERWISE PROVIDES. MTI

SPECIFICALLY DISCLAIMS ANY LIABILITY AND SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE, INCLUDING, BUT NOT LIMITED TO, DAMAGES TO ANY EQUIPMENT, WITH WHICH THIS PRODUCT IS APART.

Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusions may not apply to you. No agent, representative, dealer, or employee of the company has the authority to increase or alter the obligations or terms of this Warranty. This Warranty gives you specific legal rights and you may also have other rights that vary from state to state. This Warranty is only valid for merchandise purchased from retail outlets in the United States and Canada.

This alarm is only suitable for single occupancy private dwellings only and not intended for multi occupancy private dwellings or commercial or industrial dwellings.

Waste electrical products should not be disposed of with normal household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. New regulation will encourage the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005).



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