



Battery operated Optical Smoke Alarm Model X10/X10i

10-year Lithium Battery Built in

Important: Read all of the following instruction before installing of the devices begins! It is important to achieve the desired results.

Product Overview

This Deltronic optical smoke alarm is approved to EN14604-2005, the most recent and rigorous European smoke alarm standard. The unique X-Profiles optical chamber is particularly sensitive to slow smouldering fires typically originating in living rooms, bedrooms and hallways whilst being highly resistant to nuisance alarms. The alarm and sealed-in battery are guaranteed for the whole 10-Year life of the product, including weekly testing routine.

Product Features:

- Sealed in 10 year lithium battery.
- Approved to EN14604:2005, Smoke Alarms
- Unique X-Profile chamber with insect screen.
- With bespoke software, that maximizes the detection ability and reduces false alarms.
- Power automatically switched on as a detector is installed onto its mounting plate and automatically switched off when detector is removed.
- Red LED flashes approximately every minute confirming unit is receiving power and ready to detect fire conditions. (Quiescent Mode)
- Low Battery Warning - End of life, alarm gives one beep every minute with a silence option. Silence the audible warning for ten hours by pressing the test button, thus avoiding removing the alarm from its mounting plate. The alarm can then be replaced when convenient the following day or so.
- Extra Large Test Button for ease of use, tests sensitivity, circuitry, battery and alarm sounder.
- Loud 85 Decibel Piezo Electric Alarm Automatically resets when the hazardous condition has passed and the detector chamber is clear from smoke.
- Silence your smoke alarm by momentarily pressing the test button when it is sending an alarm. Ideal in non emergency situations where nuisance alarms may have been created, for example, by steam. The red light flashes every 12 seconds to remind you that the smoke alarm has been silenced and will automatically reset to quiescent mode after 10 minutes.
- Approved for use in Leisure Accommodation Vehicles.

Choice and Location of Alarms

Optical Smoke Detectors

Considered to be effective in detecting slow burning fires. Fires that can glow for several hours, before they develop into fires with an open flame. Examples of this type of fire, can be a cigarette lying in a piece of furniture and burning or an electric cable that is overheated and eventually starts to burn. Optical smoke detectors should not be installed in kitchens or bathrooms, as the risk of unwanted alarms increases, but preferably in a room next to the kitchen, hall or living room.

Heat Alarms

Can sometimes be used to advantage where there is a risk of unwanted alarms due to water vapor, dust or where natural combustion particles can arise e.g. in kitchens, garages and attics. However, these only react to the heat and not to combustion particles, therefore the area of use is very limited.

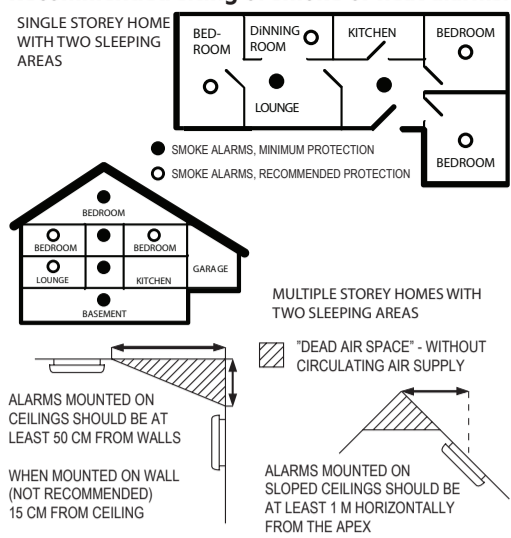
NOTE: Heat alarms should NOT be used in escape routes and should preferably be inter-linked or used together with smoke alarms if possible.

Waste

The unit has a built-in lithium battery, please dispose the device at a recycling centre, approved by the municipality, after the product's life time has expired, note the date markings on the side.

The life of the alarm can be significantly reduced by adverse environments, incorrect location and a failure to regularly clean and maintain it according to the following instructions. Incorrect location and a lack of reasonable care may also cause it to malfunction and will invalidate the warranty.

Recommended siting of smoke or heat alarms:



Avoid Following Locations

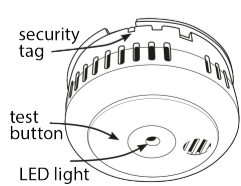
1. Do not locate near fans or extractors. These can pull or push smoke away from the smoke alarms.
2. Do not install in or near high humidity areas such as showers, bathrooms or kitchens where humidity levels exceed 85% or the room temperature exceeds 45°C or falls below 0°C. These may cause nuisance alarms and damage the detector.
3. Do not install in the peak of an A-frame or sloping ceiling. This may delay smoke from reaching them due to the presence of dead air.
4. Do not install less than 50cm from walls and light fittings when mounted on to the ceiling.
5. Do not install in heavily infested insect areas.
6. Do not install in areas subjected to heavy concentrations of cigarette smoke that will cause nuisance alarms and the alarm to become permanently contaminated over time.
7. Do not install smoke alarms in kitchens, boiler rooms and garages where fumes and dust may cause nuisance alarms.
8. Do not install on poorly insulated walls and ceilings where cold air boundary layers could prevent smoke reaching the alarm.
9. Do not install near objects that could prevent smoke reaching the alarm i.e. bookshelf.
10. Do not install within 150cm of fluorescent light fitting that could trigger nuisance alarms when lit on and of.
11. Do not paint the alarm.

Further Details on Locations

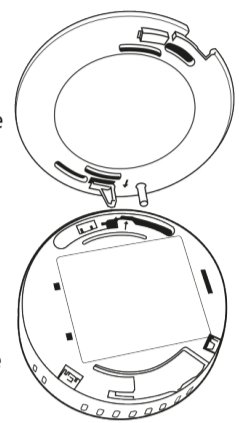
1. At least one smoke alarm should be installed in the escape route on all floors of the building.
2. The detection element of smoke alarms should be between 2,5cm and 30cm below the ceiling.
3. Smoke alarms should be at least 50cm away from any wall or light fitting.
4. If ceiling mounting is impractical smoke alarms may be installed on walls provided that the area is no longer or wider than 10 metres and the total area does not exceed 50m² and that:
 - a. The detection element is between 15cm and 30cm below the ceiling.
 - b. The bottom of the detection element is above openings such as vents, doors and opening windows.
 - c. They are not mounted close to or above heaters or air-conditioning vents.
5. Where smoke alarms are located in a hallway, corridor or landing, the smoke alarm should be no further than three metres from any bedroom door to assist audibility behind closed doors.
6. No point on the ceiling in any room, hallway or corridor should be further than 7.5 metres from any smoke alarm.
7. To give the earliest warning of a developing fire, smoke alarms should be installed in all the rooms of your home and interlinked if possible. (Other than those in point 2 of Choice and Location of Alarms above).

Installation Procedure

Do not store smoke alarms in temperatures below 0°C and above 45°C this may cause beeping and nuisance alarms when first installed. These will clear after a short time when the alarm has become acclimatised. Extended periods under these conditions will reduce the life of the alarms and invalidate the warranty. Separate the alarm from the mounting plate or the attached radio socket. Note that the product is shipped with the unit switched off. (Attaching the mounting plate/radio socket and rotating it, turns the alarm on.) If it has been activated prior to installation, push the security tag shown below and twist the alarm anti-clockwise while holding the mounting plate or radio socket. Select desired location, refer to the section above. You need to ensure surfaces do not contain hazardous materials e.g. asbestos, water or electrical lines prior to drilling.



Enclosed screw fittings are suitable for use on wood, on plaster, plasterboard and concrete use screws and plug. To avoid drilling, adhesive material or adhesive pads may be better. For certain applications, the installer may need to source own fixings. Alternatively, you may use any proprietary builders fixing adhesive normally used to fix skirting boards and other light building components to walls etc. When using the pads or adhesives make sure the surfaces are flake free, clean, dry and flat. Take care to use all appropriate Health and Safety precautions when fixing the mounting plate to their surface in particular use appropriate access equipment, protect yourself from dust and wear eye protection. Screw the mounting plate or radio socket to the ceiling using the fixings provided. Line up the arrow on the back of the unit with the arrow inside the mounting plate and mount the alarm, shown in picture. Once the unit is in position at the mounting plate twist it clockwise until the security tag clicks in to place. The sealed in battery will be automatically switched on and the alarm powered up with an internal silent test.



Testing the Alarm

Warning use hearing protection !!! (85dB at 3m) Press and release the test button. The smoke alarm should sound three times with a flashing red light and then stop. After the test, make sure that the red light flashes approximately every minute. Test the alarm once a week to ensure proper operation. To test the interconnected system please follow the instruction of the radio socket, only applies to version X10i.

WARNING: The test button provides a full test of the alarms functionality. Do not try to test the alarm using either heat, smoke or naked flame as damage will occur to the unit and surroundings.

User Information

Protect your Home Against Fire

Check out your local Fire Brigades home page for a home safety check, this information is free and will identify potential fire hazards in and around your home. It's a good guide to help you selves. Make sure all occupants of the home know what a fire alarm sounds like and what to do when:

| Normal mode | Red Flashes every minute no sound | Silent |
|--------------------------------------|---|--------|
| Full alarm indicating smoke and fire | Repeating series of 3 beeps every 4 seconds with flashing light | ••••• |
| Low battery Level | Single beep every minute | •••• |
| Test button jammed | One beep every 11 seconds | •••• |
| Fault | Double beep every minute | •••• |

What to Do if the Alarms Sound?

- Ensure everyone leaves the building as soon as possible. Check all areas so no one is left behind!
- Do not run nor stop to collect belongings.
- If it is safe to do so, close all windows and doors to prevent the spread of fire.
- Call the fire brigade at **SOS 112** if needed.
- Smoke is the main cause of death from fire. If trapped inside the building, cover your mouth, conserve breath and crawl near the floor to safety.
- If possible try to limit/put out the fire, but do not risk your selves or others life doing so.

Do not silence a fire alarm until you know the cause of the alarm and when all occupants are safely outside the building!

Preventive actions:

- Set up an escape plane and decide an assembly point in a safe area away from the building.
- Practice how to act during a real fire.
- Is there any fire fighting equipment, where and who can use it properly?
- Who is doing what? Is it possible to address different areas of responsibility? Upper, Lower...
- Don't leave candles unattended, don't handle recently put out ashes recklessly!
- Do a health check on electrical devices/cables.
- Keep matches / lighters out of reach of children.
- Do not store flammable or explosive liquids near heat sources.
- Be careful of flammable textiles/curtains near windowsills or candlelit tables.
- Please complete your fire protection with fire blanket or extinguisher.

Alarm Maintenance

A regular program of fire alarm maintenance will help you to keep your alarm in good working order.

- Vacuum the alarm every six months and wipe them off with a damp cloth so that the sensors are not clogged.

- Do not paint the alarm.
- Cover the fire detector when performing dust rich work, such as grinding of floor or wall rack.

A smoke alarm is a sensitive life-saving device. The life of this alarm can be significantly reduced by failure to regularly clean and maintain it according to the instructions. Lack of reasonable care may also cause it to malfunction and will invalidate the warranty.

Trouble Shooting

The battery will last 10 years and is not replaceable. The life of the battery can be significantly shortened by periods of storage or use in temperatures below 0°C or above 45°C. It will also be shortened by frequent or extended periods in full alarm often caused by conditions such as cigarette smoke, steam, aerosol spray and condensation. In these circumstances the warranty will be void. At the end of its life, the smoke alarm will beep once every minute for a minimum of one month. If this happens at night you can press the test button to silence the battery warning for 10 hours. Replace the alarm as soon as possible the following next day.

Failures codes are indicated in five ways:

1. The alarm beeps twice every minute indicating a malfunction. (I.e. dust in detection chamber)
2. The alarm beeps once every minute indicating a low battery.
3. The full alarm sounds for no reason. (A repeating series of three beeps with flashing light)
4. The alarm does not sound when pressing the test button.
5. The test button LED-light remains steadily on or off. (I.e. does not flash approximately once every minute, when the unit is not in alarm).

Inspect for obvious damage.

Check that the alarm has been installed in accordance with these instructions. In the case of repeated nuisance alarms, check that the unit it is free from dust, cobwebs and external contamination from such things as cigarette smoke, drying paint, spray from household aerosols and steam. This will ultimately shorten the life of the smoke alarm and invalidate the warranty. If this does not correct the problem, do NOT attempt to repair. There are no user serviceable parts internally. If the smoke alarm is within the warranty period and terms, indicate the nature of the problem and return the unit with proof of purchase to the address at the end of this manual. Units beyond warranty cannot be economically repaired.

Product Warranty

Deltronic Security AB guarantees to you, as a purchaser, that the enclosed Alarm will be free from defects in material, workmanship or design under normal use and service for a period of 10 years. This Guarantee is not assignable. Our liability to you, under this guarantee is limited to repairing or replacing any part which we find to be defective in material, workmanship or design, free of charge to the customer, upon sending the alarm with proof of date of purchase, postage paid to the address stated below.

The terms of this guarantee will not apply in the following circumstances:

If the Alarm has been modified, dismantled, contaminated, damaged, neglected or otherwise abused or altered following the date of purchase, or if it fails to operate due to incorrect siting, installation or damage caused by failure to abide by the instructions supplied. It is specifically drawn to the users attention that substantial periods in alarm will shorten the life of the Alarm, during which time the Alarm will have provided valuable protection, no claim under the guarantee will be entertained.

The liability of **Deltronic Security AB**, arising from the sale of this alarm or under the terms of this guarantee shall not in any case exceed the cost of replacement of the alarm. In no case, shall **Deltronic Security AB** be liable for consequential loss or damage resulting from the failure of the alarm or the breach of this or any other guarantee, express or implied or for damage caused by failure to abide by the instructions supplied. This guarantee does not affect your statutory rights.



For more information or if you have any questions, you are welcome to contact Deltronic, at the following address:

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SAVE INSTRUCTIONS FOR FUTURE USE

