

1. DESCRIPTION

All Unite smoke detectors are approved to the most recent and rigorous standards. The photoelectric smoke detectors with their unique X-Profile sensing chamber are approved to EN14604: 2005 and are particularly sensitive to slow smouldering fires typically originating in living rooms, bedrooms and hallways whilst being highly resistant to nuisance alarms.

The alarms are guaranteed for 6 years. However, their lives can be significantly reduced by adverse environments, incorrect location and a failure to regularly clean and maintain them according to the following instructions. Incorrect location and a lack of reasonable care may also cause them to malfunction and will invalidate the warranty.

Product Features

- All models are supplied with a back-up power source. The 7885653316 has a longlife lithium battery and the 7885653303 has 3 x AAA replaceable alkaline batteries.
- Alarm Silence – Silence your smoke alarm by momentarily pressing the test button. Ideal in non-emergency situations when nuisance alarms may have been created, for example, by steam. The red light flashes every 8 seconds to remind you that the smoke alarm has been silenced and will automatically reset to quiescent mode in 10 minutes.
- Bespoke software maximizes detection ability and false alarm rejection.
- Power automatically switched on as detector is installed onto its mounting plate and automatically switched off when detector is removed.
- A permanent green LED indicates mains power is connected and switched on.
- Red LED flashes approximately every minute confirming unit is receiving power and ready to detect fire conditions. (Quiescent Mode)
- Low Battery Warning alarm gives one acoustic alarm every minute.
- Low Battery Warning Silence – Low battery warnings often start at night. Silence the audible warning for ten hours by pressing the test button, thus avoiding removing the alarm from its mounting plate and turning it off. The batteries on non-rechargeable battery alarms can then be replaced when convenient the following day.
- Extra Large Test Button for ease of use, tests sensitivity, circuitry, power supply and alarm sounder.
- Loud 85 Decibel Piezo Electric alarm automatically resets when hazardous condition has passed and chamber is clear.
- Easy Installation – fixing screws and plugs supplied.
- The built in interconnect facility allows the connection of a combination of up to 15 smoke detectors together so that when one alarm sounds all connected alarms will sound.

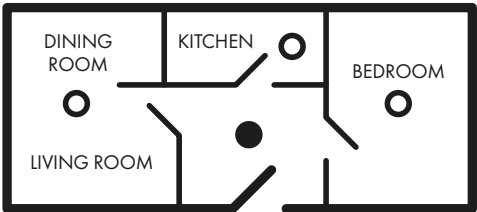
2. CHOICE AND LOCATION

Optical Smoke detectors are best at detecting smouldering fires such as those started in electrical equipment, clothing and soft furnishings such as seating, bedding, curtains and carpets. They are, therefore, ideally suited for living rooms, bedrooms and escape routes in domestic accommodation.

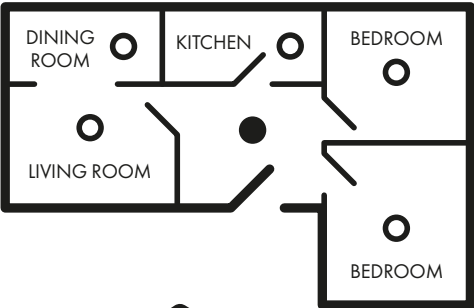
For minimum protection, install at least one smoke alarm on each level of your home. They should be installed in hallways, corridors and all escape routes from the building and within 3 meters of all bedroom doors. All alarms should be interconnected.

Recommended siting of smoke detectors in:

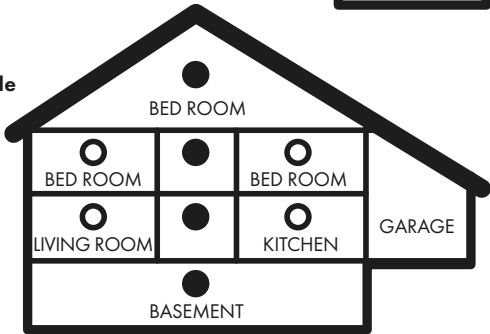
Single storey home with one sleeping area



Single storey home with two sleeping areas

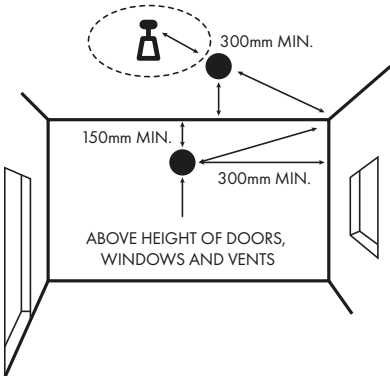


Multiple storey home with multiple sleeping areas



- Smoke detectors for minimum protection
- Smoke detectors for minimum protection

Recommended position of smoke detectors in a room, corridor or escape route:



Recommended position of smoke detectors on apex ceilings:



3. AVOID THE FOLLOWING LOCATIONS

The life of this smoke detector can be significantly reduced by adverse environments, incorrect location and a failure to regularly clean and maintain it in accordance with the instructions below. Incorrect location and a lack of reasonable care may also cause it to malfunction and will invalidate the warranty.

1. Do not locate near fans or extractors. These can pull smoke and heat away from the smoke detectors.
2. Do not install smoke detectors in or near high humidity areas such as showers, bathrooms or kitchens where humidity levels exceed 85% or the room temperature exceeds 40°C or falls below 0°C. These conditions may cause nuisance alarms and damage.
3. Do not install in the peak of an “A” frame or sloping ceiling. This may delay smoke and heat reaching them due to the presence of dead air.
4. Do not install less than 300mm from walls and light fittings when mounted on the ceiling where heat and dead air may prevent smoke reaching the alarm.
5. Do not install smoke detectors in insect infested areas.

6. Do not install smoke detectors in areas subjected to heavy concentrations of cigarette smoke that will cause nuisance alarms and the smoke detector to become contaminated.
7. Do not install smoke detectors in boiler rooms and garages where fumes and dust may cause nuisance alarms.
8. Do not install near objects that could prevent smoke and heat reaching the alarm.
9. Do not install close to fluorescent light fittings that could trigger nuisance alarms.
10. Do not paint the alarm.

The location of the alarms must be in accordance with applicable building regulations.

4. FURTHER DETAIL ON SMOKE DETECTOR

1. At least one smoke detector should be installed in the escape route from all floors of the building.
2. The detection element of smoke detectors should be between 25mm and 600mm below the ceiling, or in the case of heat alarms between 25mm and 150mm
3. Smoke and heat alarms should be at least 300mm from any wall or light fitting.
4. If ceiling mounting is impractical smoke detectors may be installed on walls provided that the area is no longer or wider than 10 meters and the total area does not exceed 50 square meters and that: -
 - a. The smoke detector is between 150mm and 300mm below the ceiling.
 - b. The bottom of the smoke detector 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 detectors are located in a hallway, corridor or landing, the smoke detectors should be no further than three meters from any bedroom door to assist audibility behind closed doors.
6. For maximum protection no point should be further than 7.5 meters from any smoke detector
7. To give the earliest warning of a developing fire, smoke detectors should be installed in all the rooms of your home and interlinked. (other than those in section 3, AVOID THE FOLLOWING LOCATIONS).

5. INSTALLATION PROCEDURE

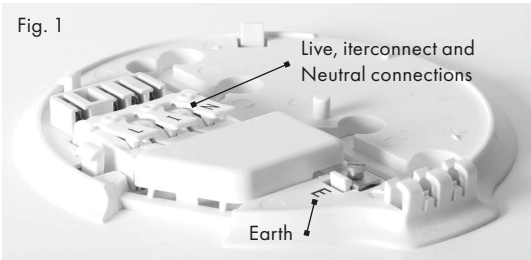
IMPORTANT NOTE: Mains powered smoke detectors should be installed by a qualified electrician and in accordance of the Building Regulations.

WARNING: Storing or installing smoke detectors in temperatures below 5°C and above 30°C, and in low humidity may cause acoustic signals and nuisance alarms when first installed. These will clear after a short time when the smoke detector has become acclimatised. Extended periods under these conditions will reduce the life of the alarms and invalidate the warranty. Do not expose to dripping or splashing. Disconnect the alarm before dismantling. Interconnect terminals and circuits are not to be accessible and must only ever run to other Interconnect terminals. Do not interconnect to alarms with other brand-names or made by other manufacturers.

The power supply should be from one of two sources:

- a. An independent circuit at the dwellings main distribution board with no other electrical equipment connected (other than a dedicated supply failure monitoring device) or:
- b. A separately electrically protected and regularly used local lighting circuit. Only suitably approved cabling should be used. The alarms should be wired using a minimum of 1,5mm2 “3 core and earth” cable; with the Brown to Live (L), Grey to neutral (N) and the Black to Interlink (I). All alarm circuits should be protected by an over-current device. The maximum total length of wiring should not exceed 250m.

Installation:



- WARNING:** Ensure the power supplies are turned off before installing smoke detectors.
- Using the fixings supplied attach the base plate of the smoke detector to the desired position.
 - Connect the supply wires to the connectors – Brown to Live (L), Grey to neutral (N) and the Black to Interlink (I). Be sure to sleeve the bare earth wire and terminate it in the connector shown above.
 - 7885653303 versions only – Fit batteries in accordance with section “Changing the Batteries” below.
 - Close the smoke detector making sure the 3 retaining clips are fitting securely. When removing the smoke detector from it’s base-plate, use a small flat bladed screwdriver in the slots to push away the clips and lever the smoke detector away.



- Test the smoke detector using the large test button (shown above) without mains power and check it sounds at least 3 times and that the red LED flashes.
- Turn on the mains power supply. (7885653316 versions only – the alarm may beep once every minute for around an hour while the battery charge is topped up).
- Check that the Green LED is on and that the red LED flashes once every minute.
- Test the smoke detector to check that all other interlinked smoke detectors in the system sound. The LEDS on the other smoke detector will not flash repeatedly during this operation.

IMPORTANT NOTE: Use only the test button to test the smoke detector weekly. Do not test the smoke detector with either a naked flame or smoke, this will damage and contaminate the smoke detector causing nuisance alarms in the future.

6. USER INFORMATION

Protect your home against fire
Make sure all occupants of the home know what a fire alarm sounds like. Prove and practise a fire escape plan and arrange a suitable and safe assembly point.

What to do if the acoustic alarms sound

Alarms sounds are as follows:

Full alarm indicating smoke and fire	Repeating series of 3 beeps every 4 seconds with flashing light
Low Battery	Single beep every minute
Test button jammed	One beep every 11 seconds
Other fault	Double beep every minute

If the full alarm sounds, ensure everyone leaves the building as soon as possible.

- Do not run.
- Do not stop to collect belongings.
- If it is safe to do so, close all windows and doors as you escape to prevent the spread of fire.
- Smoke is the main cause of death from fire. If trapped inside the building, cover your mouth, conserve breath and crawl to safety.

Do not silence a smoke detector until you know the cause of the alarm and when all occupants are safely outside the building. The red LED on the test button of the smoke detector that has set the system off will be flashing Red once every second. The lights on the other smoke detectors will be flashing once every minute. The system can only be silenced from this smoke detector.

7. CHANGING THE BATTERIES

CAUTION! Danger of explosion if the battery is incorrectly replaced. Replace only with correct batteries

The smoke detector will emit an acoustic signal once a minute to indicate the batteries need replacing. If this happens at night press the test button to silence the warning for 10 hours and replace the following day.

In the event of a low battery warning on the 7885653316 replace the alarm. The battery is not replaceable.

Replacing batteries (7885653303 only)

To replace the batteries on the 7885653303 version, isolate mains power to the smoke detector, release the retaining clips, lower the smoke detector on its hinge and refer to Fig. 2.

Insert the three AAA-batteries. Ensure the new batteries are installed correctly and close the detector. Mount the detector correctly, reconnect the power and test the detector.

Maintenance of the smoke detector

A regular smoke detector maintenance is advised to ensure the detector always works properly.

- Test the smoke detector once a week. All linked detectors should sound within 10 seconds.
- Vacuum the smoke detector every 6 months and wipe the surface with a damp cloth.

8. TROUBLE SHOOTING

Problems are indicated in several ways

- The smoke detector emits an acoustic signal twice every minute indicating a malfunction.
- The smoke detector emits an acoustic signal once every minute indicating a low battery. Replace the battery as above.
- The smoke detector emits an acoustic signal once every 11 seconds indicating the test button is jammed on. Press the test button to reset.
- The full alarm sounds for no reason. (A repeating series of three beeps with flashing light). Clean the alarm as above.
- The alarm does not sound when pressing the test button.
- The red LED remains steadily on or off. (i.e. does not flash approximately once every minute, when the unit is not in alarm).

- The green LED is off.

Inspect for obvious damage. Check that the smoke detector has been installed in accordance with the instructions, that the smoke detector is connected and the supply turned on. In the case of repeated nuisance alarms, check that it is free from dust, cobwebs and external contamination.

unite

Stationsalléen 40 · DK-2730 Herlev
www.lemu.dk



SMOKE DETECTOR 230V
READ AND RETAIN THIS USER MANUAL



Models: 7885653303 and 7885653316

unite

85 dB

230 V