

# Smoke Alarm

**9V BATTERY POWERED**  
WITH ESCAPE LIGHT FEATURE

## Model Ei 100L Ionisation

- High sensitivity – responds to all standard fires
- Dual Ionization chamber - quick response fast flaming fires
- Battery powered – 9V (supplied)
- High intensity escape light beam powered by alkaline battery
- Needs no wiring
- Missing battery indicator
- Low battery warning
- Built in sounder
- Test button
- Kitemarked to BS EN14604:2005
- 5 year guarantee



## Product Description

The Ei100L is an Ionisation Smoke Alarm that runs on a 9V battery (supplied with the alarm).

Ionisation smoke alarms operate on the principle that electrical current flowing between electrodes in an ionisation chamber is reduced when smoke particles enter.

Ionisation technology gives a rapid response to fast flaming fires

The Ei100L is particularly useful for locations such as stairs and exits routes where the light beam will illuminate the escape route.

The Ei100L is easily installed and comes supplied with all necessary screw fixings.

When the battery is first connected, the alarm may sound for 2-3 seconds – **this is normal and means that the battery is connected correctly**

## Operation

- The smoke detector will activate the built in sounder upon sensing smoke particles
- The smoke detector will automatically reset itself and silence the sounder when smoke particles are no longer present in the sensing chamber
- The built in sounder will provide a minimum sound output of 85dB at 3m
- The smoke detector has a built in warning flag to prevent installation of the detector without a battery fitted
- The “Test” button will perform a self test and sound the horn (it may take up to 10 seconds)
- The smoke detector will emit a beep every 40 seconds to indicate that the battery back up is depleted and needs replacing



Shannon Free Zone, Shannon, Co. Clare, Ireland.  
Ph.+353 61 471277 Fx.+353 61 471053  
Email. [eielectronics@eiltd.ie](mailto:eielectronics@eiltd.ie)  
Web: [www.eielectronics.com](http://www.eielectronics.com)

## Model Ei100L Ionisation

### Technical Specification

<b>Sensor</b>	Ionisation, uses electrically charged ions that will react to smoke particles	<b>Alarm:</b>	Piezoelectric-horn in unit
<b>Sensitivity:</b>	Complies with BS EN 14604:2005	<b>Alarm Sound Output:</b>	85dB (minimum) at 3m
<b>Source:</b>	Americium 241	<b>Temperature Range:</b>	0 to 40°C
<b>Airspeed:</b>	Essentially immune to the effect of airspeed.	<b>Humidity Range:</b>	15% to 95% Relative Humidity non condensing
<b>Button Test:</b>	Simulates the effect of smoke and checks chamber, electronics and horn.	<b>Fixing:</b>	Screw fixings supplied
<b>Supply Voltage:</b>	9V battery	<b>Plastic material:</b>	UL94HB flame retardant
		<b>Dimensions:</b>	140x120x45 mm
		<b>Weight:</b>	234 gram
		<b>Warranty:</b>	5 year (limited) warranty
		<b>Approvals:</b>	Kitemarked to BS EN 14604:2005, CE Approved

Specifications are subject to change

### Installation & Placement



Alarms should be placed in accordance with the general guidelines shown in the diagram above. These recommendations are based on the problem of areas of "dead air" close to corners of rooms and apexes of ceilings, which could result in the prevention of smoke reaching the smoke detector

Please consult the Instruction Leaflet supplied with the Ei100L for detailed instructions as to how to correctly install and position the smoke detector

#### Important Precaution:

Do not install the actual smoke/heat alarm itself in new or renovated buildings until all work is completed (including floor coverings) and the building has been fully cleaned. (Excessive dust and debris from building work can contaminate the smoke chamber and cause problems, and it will also invalidate the guarantee). If it must be installed, cover it completely, particularly around the edges, with a dust cover (eg. a plastic bag), until all cleaning is finished..