

# Smoke Alarm System

**MAINS POWERED 230V~**

For the deaf and hard of hearing

## Model Ei 169/160

- Complete smoke alarm system kit
- Includes high intensity strobe, smoke alarm and vibration pad
- Rechargeable battery back up
- Test button
- Continuous monitoring of wiring
- Interconnectable to other Ei alarms
- Auxiliary sockets
- Low power cell warning
- Complies with BS415:1990 electrical safety
- 5 year guarantee



### Product Description

The Ei169/160 is a smoke alarm system kit designed for the deaf and hard of hearing and can be selected with either optical or ionisation smoke alarms.

The system includes the Ei173 control panel, Ei174 vibrating pad and an interface patrix Ei172/160.

Additional ionisation, Ei161RC or optical smoke alarms Ei166RC, must be selected to complete the alarm system

The Ei173 control panel includes a high intensity Xenon strobe, a sealed lead-acid rechargeable battery for standby use in the event of mains failure and all the required circuitry to connect to the smoke alarm and Ei174 vibrating pad

The Ei173 control panel also incorporates a Test button and circuitry to continuously monitor the system wiring

The Ei174 vibrating pad is designed to be placed under the mattress or pillow to waken people who fail to respond to the strobe alarm

Up to 11 other smoke/heat alarms can be interconnected to the master smoke alarm. In the event of mains failure the rechargeable battery in the panel will power the system for one week.

### Operation

- The green indicator will illuminate to show mains power is present
- The red indicator will flash once every second to show that the mains supply is off and the system is running on battery backup power
- The red indicator will go off as the battery becomes depleted (with mains off)
- The slide switch on the control panel disconnects mains and battery power from the control panel and extinguishes both LED indicators
- The "Test" button will check the strobe, vibration pad and panel
- When the smoke alarm is activated, the Ei173 control panel will flash the strobe at 1Hz and activate the vibrating pad
- The interconnect wiring from the smoke alarm to the control panel is monitored so that if the smoke alarm is not connected or if it is open/short circuit, then the strobe will flash and the vibrating pad will turn on
- An auxiliary socket allows the connection of an extra strobe or vibrating pad



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## Model Ei169/160

### Technical Specification

<b>Sensor</b>	Optical or Ionisation	<b>Power-On Indicator:</b>	Continuous green LED
<b>Sensitivity:</b>	Complies with BS 5446 Part 1: 1990	<b>Alarm:</b>	Xenon tube strobe (1Hz)
<b>Source:</b>	Americium 241 (for Ei171/160 only)	<b>Temperature Range:</b>	0 to 40°C
<b>Airspeed:</b>	Essentially immune to the effect of airspeed.	<b>Humidity Range:</b>	0% to 90% Relative Humidity
<b>Button Test:</b>	Tests strobe, vibration pad and panel	<b>Interconnect:</b>	Up to 12 interconnected Ei161RC/164RC/166RC smoke/heat alarms
<b>Fault Monitor:</b>	Open/short circuit	<b>Fixing:</b>	Screw fixings supplied
<b>Supply Voltage:</b>	230V AC	<b>Plastic material:</b>	UL94VO flame retardant
<b>Battery back up:</b>	Sealed Rechargeable lead acid battery	<b>Warranty:</b>	5 year (limited) warranty
<b>Auxiliary socket:</b>	Provides 12V/200mA in alarm	<b>Approvals:</b>	BS 415:1990 electrical safety

Specifications are subject to change

### Placement Information



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

#### 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. The wiring can be installed when appropriate. (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.. Connect wires to the unit as in wiring diagram. All wiring must comply with local codes.



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