TECHNICAL SPECIFICATION
Ei161 Ionisation Smoke Alarm

1) The Smoke Alarm carries the BSI Kitemark to indicate type testing to BS 5446: Pt. 1: 2000. It will meet and exceed the requirements of Grades D, E and F systems as defined in BS 5839: Pt.6: 2004. It carries the CE mark to indicate conformance to BS EN 60065-1994 Low Voltage, and BS EN 50081-1:1992 and BS EN 50082-1:1992 Electromagnetic Compatibility Directives.

2) Dual ionisation chamber sensor, with corrosion resistant electrodes, and insect resistant cover.

3) 230V AC Mains Power Supply with built-in tamper proof Rechargeable Vanadium Pentoxide Lithium standby cells, capable of lasting at least 10 years and powering the alarm initially for at least 6 months in the event of mains power failure.

4) The Lithium cell manufacturer endorses a minimum 10 year life expectation for the rechargeable cells.

5) Alarm is supplied with an `*Easi-fit*` built-in surface mounting plate, with integral terminal block and cable cover. The smoke alarm connects to the mains automatically as it slides on to the mounting plate. The smoke alarm disconnects from the mains as it slides off the mounting plate, without the need for a lead and connector.

6) All mains wiring is covered by a cable cover so that the mains cable is not visible when the smoke alarm is removed from the ceiling, obviating the need for a ceiling pattress or dry lining box.

7) Encased horn assembly gives a minimum sound output of 85dB(A) at 3 metres. The diameter of the piezo disc in the sounder measures 40mm, and is securely held with silicone mastic to prevent creepage and premature horn failure. Additionally, soldered contacts are used in order to eliminate failures due to corrosion and arcing that are associated with commonly used pressure contacts.

8) Interconnection capability such that if one alarm sounds all interconnected alarms sound. Up to 36 units, ionisation, optical or heat can be interconnected in this way providing a relay is not used.

9) Manual integral test/hush button to test circuitry, sensor and horn and activate all interconnected alarms in the system. Also operates 'Hush' feature to silence nuisance alarms. Red LED will flash every 10 seconds to indicate that alarm is in 'hush' mode and will automatically reset after approximately 10 minutes. The unit emits 2 rapid beeps to indicate that it has reset to standby mode.

10) Separate green LED mains indicator light to confirm integrity of mains power supply.

11) Separate red LED will flash every 40 seconds to indicate full auto test of circuitry and the rechargeable cells. The red LED will flash rapidly in alarm condition and flash once every ten seconds whilst the unit is in a de-sensitive (hush) condition.

12) Low power cell warning signal operates with or without mains power present.

13) Anti tamper locking device prevents unauthorised removal of the alarm without the use of a tool.

14) Foam gasket built into surface mount plate to prevent dust ingress into the rear of the unit.

15) Ambient temperature range: 0°C to 40°C (32°F - 104°F). 0% to 95% (non-condensing) relative humidity.

16) Identification label on cover to differentiate between Ei140 and Ei160 Series “RECHARGEABLE LITHIUM CELLS”.

17) Dust cover is fitted to the alarm to protect it from contamination during installation.

18) Supplied with two separate sets of instructions - one for the installer and one for the user.

19) Dimensions: 140mm dia. x 43mm depth.

20) Weight inclusive of packaging: 324g.

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