

Ionisation Smoke Alarm

**Mains Powered 230V~ with
Battery Back-up**

Model Ei141

- Dual Ionisation chamber sensor
- 9V Alkaline Battery back-up
- Easi-fit base
- Built in Test/Hush button
- Advanced suppression and calibration technology
- Interconnectable to other Ei mains powered alarms
- Low power cell warning
- Kitemarked to BS EN14604:2005
- 5 Year Guarantee



Product Description

The Ei141 is an Ionisation Smoke Alarm that runs on 230V AC mains power, and has a 9V PP3 Battery back-up capable of lasting up to 4 years in standby mode and capable of powering the alarm for up to 2 years without mains power.

The alarm gives a fire warning when adequate smoke enters the alarm.

The alarm is supplied with an Easi-fit base that allows very quick and simple installation of the smoke alarm, combined with simple alarm head removal and replacement. The Easi-fit base automatically connects both mains power and battery as the alarm slides on.

The alarm has other advanced features such as built in circuitry to aid suppression of voltage transients and RF interference to further reduce the chances of false alarms under such conditions.

Operation

- The green indicator will illuminate to show mains power is present
- The red indicator will flash every 40 seconds to show that the alarm has performed an automatic self test
- The red indicator will flash rapidly to show an alarm condition for the alarm that has triggered
- The "Test/Hush" button will either silence false alarms (if briefly pressed) or to perform a self test (if pressed and held)
- In "Test" mode the alarm will perform a self test and sound the horn
- In "Hush" mode the alarm enters a ten-minute period of reduced sensitivity to overcome false alarm conditions. It will then automatically reset itself
- When interconnected to other Ei mains powered alarms, an alarm on one unit will trigger all other interconnected alarms (only the triggered alarm will flash a red indicator)
- The alarm will emit a beep every 40 seconds to indicate that the battery back-up is depleted and needs replacing



Mile End Business Park, Oswestry, Shropshire SY10 8NN

Tel. 0870 758 4000

Fax. 0870 758 4010

www.aico.co.uk

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We reserve the right to amend designs and specifications without prior notice.

Ei141 DataSht Rev0 29.03.10

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Technical Specification

1. The Smoke Alarm carries the BSI Kitemark to indicate type testing to BS EN14604: 2005. It will meet the requirements of Grade D (and exceed the requirements of Grades E and F) as defined in BS 5839: Pt.6: 2004. It carries the CE mark to indicate conformance to Low Voltage and Electromagnetic Compatibility Directives.
2. Dual ionisation chamber sensor, with corrosion resistant electrodes, and insect resistant cover.
3. 230V AC Mains Power Supply with 9V Alkaline Battery standby supply capable of lasting up to 4 years in standby mode and capable of powering the alarm for up to 2 years without mains power.
4. Alarm is supplied with an 'Easi-fit' built-in surface mounting plate, with integral terminal block and cable cover. The Alarm connects to the mains and interconnect/control connections automatically as it slides on to the mounting plate. The Alarm disconnects from the mains and interconnect/control connections as it slides off the mounting plate, without the need for a lead and connector.
5. All mains wiring is covered by a cable cover so that the mains cable is not visible when the Alarm is removed from the ceiling, obviating the need for a ceiling pattress or dry lining box.
6. Encased horn assembly gives a minimum sound output of 85dB(A) at 3 metres. The diameter of the piezo disc in the sounder measures 35mm, 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.
7. Interconnection capability such that if one alarm sounds all interconnected alarms sound. Up to 20 alarms, ionisation, optical or heat can be interconnected in this way.
8. Automatic self-test feature tests the chamber every 40 seconds and unit bleeps (without red LED flash) if it is degraded.
9. Manual integral Test/Hush button tests circuitry, sensor and horn and activates all interconnected alarms in the system. Also operates 'Hush' feature to silence nuisance alarms. Red LED on alarm cover will flash every 10 seconds to indicate that alarm is in 'Hush' mode and will automatically reset after approximately 10 minutes.
10. Remote alarm activation can be achieved by using a manual call point MCP401RC. See separate specification sheets for more information on these options.
11. Remote 'Locate' facility via an Ei159 Locator Switch to audibly identify source of alarm signal when system is sounding. All units except the alarm that has triggered and sent out the interconnect signal will be silenced.
12. Alarm has a RadioLINK wireless interconnect capability when used with an Ei168RC RadioLINK base. In this case other RadioLINK products can be connected.
13. Separate green LED mains indicator light on the alarm cover to confirm integrity of mains power supply.
14. Separate red LED on the alarm cover will flash every 40 seconds to indicate full auto test of circuitry and the battery. 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.
15. Low power cell warning signal operates with or without mains power present.
16. Anti tamper locking device prevents unauthorised removal of the alarm without the use of a tool.
17. Foam gasket built into 'Easi-fit' plate to prevent dust ingress into the rear of the alarm.
18. Ambient temperature range: 0°C to 40°C (32°F - 104°F). 0% to 95% (non-condensing) relative humidity.
19. Dust cover is fitted to the alarm to protect it from contamination during installation.
20. Supplied with two separate sets of instructions - one for the installer and one for the user.
21. Dimensions: 140mm dia. x 43mm depth.
22. Weight inclusive of packaging: 370g.
23. 5 Year Guarantee.
24. Manufactured in Ireland.



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Europe's Leader in Residential Fire + Gas Detection
Ei Electronics, Shannon, Ireland



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