

Ionisation Smoke Alarm

12V DC Powered

Model Ei100R

- Dual Ionisation chamber sensor
- Built-in Test button
- Advanced suppression and calibration technology
- Interconnectable with other 100R Series alarms
- Volt free relay contacts supplied
- Kitemarked to BS EN14604:2005
- 5 Year Guarantee



Product Description

The Ei100R is an Ionisation Smoke Alarm that runs on 12V DC power

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

The alarm has a pair of built-in Volt free relay contacts (i.e. can be used to switch into a burglar panel)

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 red indicator on the front of the alarm will flash every 40 seconds to indicate mains power, and that it has performed an automatic self test
- The red indicator will flash rapidly to show an alarm condition for the alarm that has triggered
- In "Test" mode the alarm will perform a self test and sound the horn
- When interconnected to other 100R Series 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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Ei100R DataSht Rev 0 02.08.10

Model Ei100R

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 Electrical Safety and Electromagnetic Compatibility Directives.
2. Dual ionisation chamber sensor, with corrosion resistant electrodes, and insect resistant cover.
3. Built in sounder giving a minimum sound output of 85dB(A) at 3m. Frequency range 2200/2800Hz. The diameter of the piezo disc in the sounder measures 40mm, and has wire contacts soldered directly on to the piezo disc. The sounder includes a resonator or "trumpet" 30mm in length, which reaches to the lid of the outer casing in order to amplify the sound.
4. Test button simulates the effect of smoke and tests sensor, electronics and horn.
5. Automatic Self-Test: Smoke chamber is tested every 40 seconds and unit beeps if a fault is detected.
6. Interconnect feature, if one alarm sounds all interconnected alarms will sound, up to 12 units may be interconnected using a low voltage multi core signal cable. Maximum resistance 20 Ohms. Can be interconnected with Ei100R, Ei105R and Ei103R alarms only.
7. Automatic reset facility - when smoke clears from the sensor the smoke alarm will reset automatically.
8. Relay Contacts - Volt free with Normally Open and Normally Closed options and rated to 24 Volts/1 Amp resistive.
9. Power on LED flashes every 40 seconds to confirm integrity of power supply.
10. Power supply: 10.2 to 14 Volts DC - normally supplied by compatible control panel.
11. Standby current: 150 microamps (max). Alarm current: 60 mA (max), 30 mA (min).
12. Airspeed: No false alarms up to 22mph.
13. Ambient Temperature Range: 4°C to 40°C. Humidity Range: 0 to 90 % relative humidity.
14. Dimensions: 140 x 125 x 46mm.
15. Weight inclusive of packaging: 210g.
16. Manufactured in Ireland.
17. 5 Year Guarantee.



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