

## **TECHNICAL SPECIFICATION**

### **Ei141 Ionisation Smoke Alarm**

- 1) The Smoke Alarm carries the BSI Kitemark to indicate type testing to BS 5446: Pt.1: 2000. 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 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.
- 5) 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. This obviates 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) Alkaline battery is connected using a snap fit connector to ensure correct polarity. The battery is supplied pre-connected to obviate the risk of non-connection when installed. The circuit is not connected until the smoke alarm is fully attached to the mounting plate. The battery compartment is fitted with a 'battery missing device' which will not allow fitting of the alarm to the backplate if the battery is removed. Low battery warning signal operates with or without mains power present.
- 8) Interconnection capability such that if one alarm sounds all interconnected alarms will 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 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.
- 12) Anti tamper locking device prevents unauthorised removal of the alarm without the use of a tool.
- 13) Foam gasket built into the surface mount plate to prevent dust ingress into the rear of the unit.
- 14) Ambient temperature range: 0°C to 40°C (32°F - 104°F). 0% to 95% (non-condensing) relative humidity.
- 15) Dust cover is fitted to the alarm to protect it from contamination during installation.
- 16) Supplied with two separate sets of instructions - one for the installer and one for the user.
- 17) Dimensions: 140mm dia. x 43mm depth.
- 18) Weight inclusive of packaging: 370g.
- 19) 5 Year Guarantee.
- 20) Manufactured in the EU.

#### **Aico Ltd.,**

Mile End Business Park, Maesbury Rd, Oswestry, Shropshire SY10 8NN  
Tel: 0870 758 4000 Fax: 0870 758 4012

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