

# Heat Alarm

## Mains Powered 230V~ with Rechargeable Battery Back-up

### Model Ei154TL

- Fixed temperature fast response thermistor type sensor, range  $58^{\circ}\text{C} \pm 4^{\circ}\text{C}$
- Tamper Proof rechargeable Lithium battery back-up
- Built in Test button
- Advanced suppression and calibration technology
- Interconnectable with other mains powered Aico alarms
- Low power cell warning
- Kitemarked to BS5446-2:2003
- 5 Year Guarantee



### Product Description

The Ei154TL is Heat Alarm that runs on 230V AC mains power, and has built in tamper-proof Lithium cells that act as a battery back-up in the event of mains failure. These rechargeable Lithium cells are designed to have a ten-year life and outlast the life of the smoke alarm itself, whilst providing up to six months of smoke alarm operation without mains power.

The alarm gives a fire warning when the temperature at the unit reaches  $58^{\circ}\text{C}$ . Heat alarms are designed for use in kitchens and garages, where the use of Optical or Ionisation alarms would lead to unwanted nuisance alarms.

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 detector 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" button (if pressed and held) will perform a self test and sound the horn.
- When interconnected to other Ei mains powered alarms, an alarm on one detector 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 recharging



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### Technical Specification

1. The Heat Alarm carries the BSI Kite mark to indicate type testing to BS 5446: Pt. 2: 2003, Class A2. 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. Fixed temperature thermistor type sensor, temperature range  $58^{\circ}\text{C} \pm 4^{\circ}\text{C}$ .
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. The Lithium cell manufacturer endorses a minimum 10 year life expectation for the rechargeable cells.
4. Built-in sounder gives a minimum sound output of 85dB(A) at 3 metres. Frequency is in the 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 and reaches to the lid of the outer casing in order to amplify the sound.
5. Interconnection capability such that if one alarm sounds all interconnected alarms sound. Up to 20 units, Ionisation, Optical or Heat, can be interconnected in this way providing a relay is not used.
7. Manual test button to test circuitry, sensor and horn and to activate all interconnected alarms in the system. Automatic reset facility of alarm function.
8. Separate green LED mains indicator light to confirm integrity of mains power supply.
9. Separate red LED to flash every 40 seconds to indicate auto test, and to flash rapidly in alarm condition.
10. Low power cell warning signal operates with or without mains power present.
11. Anti tamper locking device prevents unauthorised removal of the alarm without the use of a tool.
12. Foam gasket built into surface mount plate to prevent dust ingress into the rear of the unit.
13. Non-reversible mains connector with 200mm lead and wiring instruction label.
14. Dust cover is fitted to the alarm to protect it from contamination during installation.
15. Supplied with two separate sets of instructions - one for the installer and one for the user.
16. Ambient temperature range:  $-5^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$  ( $23^{\circ}\text{F}$  -  $104^{\circ}\text{F}$ ). 15% to 95% relative humidity.
17. Dimensions: 140 x 120 x 60mm. Weight inclusive of packaging: 280g.
18. 5 year guarantee.
19. Manufactured in Ireland.



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

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