



The European Market Leader in  
Home Life Safety

# Product Selector

ISSUE 14

an  Company

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# About Us

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# The European Market Leader in Home Life Safety.

Aico, an Ei Company, specialises in pioneering new technologies in home life safety and works closely with Installers, Specifiers, Landlords, Local Authorities and Housing Associations to create safer environments for Homeowners and Residents.

Our commitment extends beyond fire protection, as we have expanded through our HomeLINK technology. This advanced software leverages Internet of Things technology to create safer, healthier, and more sustainable homes. The software monitors home environments and provides actionable insights addressing challenges such as damp, mould, energy efficiency, fuel poverty, indoor air quality, and compliance.

Each Aico product has been designed, developed and manufactured at our factory in Ireland, and is thoroughly tested at multiple points throughout manufacture to make sure it meets every UK standard and carries the relevant BS Kitemark.

We also provide full nationwide technical support offering advice on alarm selection, siting, installation and maintenance, as well as specification documents and a dedicated installer training scheme, Expert Installer.

Corporate Social Responsibility is a key focus for us; our 'Aico in the Community' initiative helps schools, colleges, charities and community organisations achieve their goals to help create safer communities and build sustainable futures. We do this through focusing on a five pillar approach; Workplace, Marketplace, Community, Environment and Governance.

# Education, Quality, Service and Innovation.

At the heart of everything we do.

We are extremely proud of our high standards both in our products and our company, and whether it is working with Installers, Local Authorities or within the Community, we always follow the same philosophy.





## Education

Our primary aim is to make homes safer. We believe it is our responsibility to not only create the right safety products, but to also raise awareness of dangers through our educational campaigns to communities, alongside promoting best practice through our installer programme. In terms of education, we are also proud to work with schools, colleges and universities to create opportunities for the next generation to share our vision.



## Service

We offer market-leading support to our customers, with a team of experienced Relationship Managers across the UK offering all the information needed to select the right alarms and technologies. They also work closely with distributors, while our in-house Technical Team is available to provide dedicated technical support. Finally our Internal Sales Team provide excellent support over the phone to create a smooth ordering process for every customer.



## Quality

For the most reliable life-saving detection, each individual alarm not only meets every approval but is tested several times, primarily on initial assembly, at the test and calibration stage and a final thorough test. Every alarm is also third party accredited to the relevant British or European standard, and both Aico and Ei operate to ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 standards.



## Innovation

Aico's dedicated Research and Development Department continues to innovate with new products and applications, and together with Ei Electronics we hold over 20 patents on life-saving alarm detection technologies. Aico has been first to market with many ground-breaking innovations that improve protection and make maintenance easier, including rechargeable battery packs, wireless radio frequency interconnection, Multi-Sensor fire alarms and digital information extraction.



# All the training and support Installers and Specifiers need.

From our Expert Installer programme to our renowned Centre of Excellence at our head office, to our Mobile Training & Demonstration units, we provide an exceptional level of bespoke training, development and technical guidance, whatever your role.



## Centre of Excellence

Our dedicated training and support facility opened in 2015 and in its first year welcomed over 1,200 people on bespoke training packages. To book a visit, go to our website or email your local RM.



## Mobile Training & Demonstration Units

We have four fully-equipped units, which travel the country with our Relationship Managers (RM) for hands-on training sessions including free FIA-accredited CPD Expert Installer training and demonstrations of the latest technologies. Ask your RM for details.

# Become an Aico Expert Installer

**AICO  
EXPERT**



Aico's award-winning Expert Installer training is a FREE scheme designed to provide Installers with all the information they need to select and install **Fire and Carbon Monoxide alarm systems** and **HomeLINK Environmental Sensors**. The 120-minute CPD core module covers:

**Standards & Regulations**



**System Design**



**Alarm Types**



**System Installation**



There will also be the opportunity to learn more about the latest technology that helps to create safer, smarter homes:



Aico's Relationship Managers deliver training across the country in specialised mobile units. Once you have signed up, we will be in touch to advise you on training courses and upcoming dates in your area.

**Scan to register for  
Expert Installer  
training**





2022 WINNER



Program of the  
Year: **SMB**



# Join the Aico Installer Community Online

All Expert Installers will be invited to join the Installer Community.  
Get connected and find out more.



**CONNECT**  
with fellow  
professionals



**LEARN** new skills  
to earn points and  
receive prizes



**REWARDS** and  
monthly prizes  
of up to £500!

Members of the Community are eligible for Aico's

## City & Guilds Assured Training

This free-of-charge City & Guilds training is held at our Centre of Excellence in Oswestry and provides in-depth knowledge on Domestic Fire & Carbon Monoxide alarm systems, giving a detailed understanding of:

- Design
- Installation
- Maintenance
- Interconnection
- Siting
- Electrical connection



New dates are released monthly from within the Installer Community, available on a first-come, first-served basis.

# Sensor Types

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Which Product Where?

12-13

# Which product where?

## Fire & Carbon Monoxide (CO) (Multi-Sensor)

- The device contains a thermistor heat sensor and high performance optical sensor that intelligently work together, but will also operate independently
- Monitors both sensors to virtually eliminate the risk of nuisance alarms
- The proven electrochemical CO sensor provides an accurate CO response

### Recommended for:



Hallway



Landing



Living Room



Dining Room



Bedroom



Loft Spaces



Scan for more information about the Ei3030 Fire & CO Multi-Sensor Alarm

## Heat & Carbon Monoxide (CO) (Multi-Sensor)

- Multi-sensor heat and CO alarms are recommended for kitchens with any fuel burning appliances such as gas boilers or cookers

### Recommended for:



Kitchen



Garage

## Fire Alarm (Multi-Sensor)

- Contains optical and heat sensors to detect both smoke and heat, so responds to all fire types
- Monitors both sensors to virtually eliminate the risk of nuisance alarms

### Recommended for:



Hallway



Landing



Living Room



Dining Room



Bedroom



Loft Spaces



## Heat (Single Sensor)

- These use a thermistor (heat sensor) which detects changes in temperature, and triggers the alarm at 58°C

### Recommended for:



Kitchen



Garage

They are not sensitive to cooking fumes and react instead to heat build-up from large flaming fires

## Optical (Single Sensor)

- Optical sensors use an infra-red beam to detect smoke and react to slow, smouldering fires such as electrical fires

### Recommended for:



Hallway



Landing



Living Room



Dining Room



Bedroom

## Carbon Monoxide (Single Sensor)

**⚠ You cannot see, smell or taste Carbon Monoxide, but it can kill you.**

Standards and regulations vary depending on your location within the United Kingdom. For siting guidance, please refer to the specific recommendations for England, Wales, Scotland and Northern Ireland.

## Environmental Sensors

HomeLINK Environmental Sensors measure temperature, humidity and Carbon Dioxide to create better maintained, healthier and more energy efficient homes.

### Recommended for:



Living Room



Kitchen



Bedroom



Bathroom



# Product Range

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3000 Series	17-20
1000 Series	21-22
600 Series	23-25
140e Series	26-27
Carbon Monoxide Battery Series	28-29
eco-fit Range	30
Accessories	31-34



# Whatever you need, Aico has it covered.

With Aico's extensive product range and ever-growing list of sophisticated, ground-breaking features, you are sure to find precisely what you need in terms of home life safety.

**Product Range**



# 3000 Series

MULTI-SENSOR & SINGLE SENSOR ALARMS

The 3000 Series is a new generation of intelligent alarms, yet retains the simplicity installers love. Available in Multi-Sensor and Single-Sensor options.



Mains powered with 10 year  
rechargeable Lithium cell back-up



base



**AudioLINK<sup>+</sup>**

BUILT IN



**SmartLINK<sup>®</sup>**  
COMPATIBLE



Available in eco-fit packs



Specify a whole property  
from one series



Quick and reliable  
interconnection



life



Scan for more  
information

NEW TO THE  
**3000**  
SERIES

## Fire & Carbon Monoxide Multi-Sensor

Includes optical, heat and Carbon Monoxide  
Sensors for the ultimate fire & CO response.



### Fire Response

Contains a thermistor heat sensor and high performance optical sensor that intelligently work together, but will also operate independently.



### CO Response

The proven electrochemical CO Sensor provides an accurate CO response.

The CO response is in line with BS EN 50291-1:2018.

### Visual Indicators

Has visual Fire & Carbon Monoxide indicators. The relevant indicator flashes depending on what has triggered the alarm.



### Ei3030

#### Multi-Sensor Fire & CO

Fire and Carbon  
Monoxide coverage in  
one alarm

#### Recommended for:



#### Additional Feature

Fire and Carbon  
Monoxide indicator on  
alarm head

**£110.38 each**



BS EN 14604:2005  
BS 5446-2:2003  
BS EN 50291-1:2018



## Ei3028

### Multi-Sensor Heat & CO Alarm

Heat and Carbon Monoxide coverage in one alarm

#### Recommended for:



#### Additional Feature

Heat and Carbon Monoxide indicator on alarm head

**£98.91 each**



BS EN 50291-1:2018  
BS 5446-2:2003



## Ei3024

### Multi-Sensor Fire Alarm

Contains both optical and heat sensors for a total fire response

#### Recommended for:



#### Additional Feature

Unique Dust Compensation mechanism to reduce false alarms

**£80.19 each**



BS EN 14604:2005  
BS 5446-2:2003



## Ei3016

### Optical Smoke Alarm

Best for slow, smouldering fires such as sofas and electronics

#### Recommended for:



#### Additional Feature

Unique Dust Compensation mechanism to reduce false alarms

**£61.48 each**



BS EN 14604:2005



## Ei3014

### Heat Alarm

For detecting heat build-up from large flaming fires

#### Recommended for:



#### Additional Feature

Fast response thermistor

**£64.02 each**



BS 5446-2:2003



## Ei3018

### Carbon Monoxide (CO)

Proven electrochemical sensor

#### Recommended for:

It is advised to fit to BS EN 50292:2013 recommendations

#### Additional Feature



Sound mimic feature when connected to other 3000 Series smoke and heat alarms via SmartLINK

**£75.58 each**



BS EN 50291-1:2018



## Ei3000MRF

### SmartLINK<sup>®</sup> Module

Plug into the head of any 3000 Series alarm to enable SmartLINK capabilities

**£66.05 each**





# 1000 Series

THE HOMELINK CONNECTED HOME SOLUTION

Our life safety products wirelessly connect to our Ei1000G Gateway; an innovative and award-winning system that extracts and collates data directly from our alarm heads and HomeLINK Environmental Sensors, with all the data available from a user-friendly portal. These actionable insights enable preventative measures and proactive maintenance for housing stock.



**Quick and reliable  
interconnection**



life



**SmartLINK®**  
COMPATIBLE



**HomeLINK®**  
COMPATIBLE

Scan for more  
information



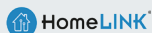


## Ei1000G

### The Gateway

Enables remote management via the online portal

### Additional Features



Roaming SIM card for reliable data connection

Connects to compatible Aico Radio Frequency devices

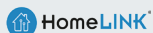
**£296.01 each**  
Lifetime licence included\*

## Ei1025

### Environmental Sensor

Monitors temperature, humidity and CO<sub>2</sub>

### Additional Features



10-year lithium battery

Connection to Ei1000G Gateway required to extract data

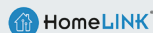
**£205.07 each**  
Lifetime licence included\*

## Ei1020

### Environmental Sensor

Monitors temperature and humidity

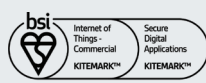
### Additional Features



10-year lithium battery

Connection to Ei1000G Gateway required to extract data

**£156.83 each**  
Lifetime licence included\*



\*Please visit the product pages on our website (or scan) for the Ei1000G, Ei1025 and Ei1020.





# 600 Series

MULTI-SENSOR, SMOKE & HEAT ALARMS

The 600 Series includes an intelligent range of battery-powered Multi-Sensor, Heat and Optical Smoke alarms.



## Product Features:



**Battery powered by a sealed in Lithium cell**

**Easy to fit - twist on base and multi-fixings**



life

Scan for more information





## Ei660iRF

### Multi-Sensor Fire Alarm

Contains both optical and heat sensors for a total fire response

#### Recommended for:



#### Additional Feature



**£112.67 each**



BS EN 14604:2005  
BS 5446-2:2003



## Ei660i

### Multi-Sensor Fire Alarm

Contains both optical and heat sensors for a total fire response

#### Recommended for:



#### Additional Feature



**£51.89 each**



BS EN 14604:2005  
BS 5446-2:2003



## Ei650iRF

### Battery Optical Alarm

Best for slow, smouldering fires such as sofas and electronics

#### Recommended for:



#### Additional Feature



**£100.56 each**



BS EN 14604:2005



## Ei650i

### Battery Optical Alarm

Best for slow, smouldering fires such as sofas and electronics

#### Recommended for:



#### Additional Feature



BUILT IN

**£39.78 each**



BS EN 14604:2005

## Ei630iRF

### Battery Heat Alarm

For detecting heat build-up from large flaming fires

#### Recommended for:



#### Additional Feature



BUILT IN

**£102.24**



BS 5446-2:2003



# 140e Series

SMOKE & HEAT ALARMS

Mains-powered Smoke and Heat alarms with battery back-up, easi-fit base and RadioLINK compatibility.



## Product Features:



Mains powered with  
9V Alkaline battery back-up



life



**RadioLINK**<sup>TM</sup>  
COMPATIBLE



base



Scan for more  
information



## Ei146e

### Optical Smoke Alarm

Best for slow, smouldering fires such as sofas and electronics

#### Recommended for:



**£35.11 each**



BS EN 14604:2005



## Ei144e

### Heat Alarm

For detecting heat build-up from large flaming fires

#### Recommended for:



**£44.93 each**



BS EN 5446-2:2003



## Ei168RC

### RadioLINK™ Base

Fit under any 140e Alarm to enable RadioLINK wireless interconnection

**£66.05 each**



# Carbon Monoxide Battery Series



## Product Features:

**Easy to fit - twist on base  
and multi-fixings**

**Proven electrochemical sensor**



**Battery powered by a  
sealed in Lithium cell**

 **AudioLINK<sup>+</sup>**  
**BUILT IN**

**10**  
**YEAR** life



Scan for more  
information





## Ei208WRF

### Recommended for:

It is advised to fit to  
BS EN 50292:2023  
recommendations

### Additional Feature

 **AudioLINK<sup>+</sup>**  
 **RadioLINK<sup>+</sup>**  
BUILT IN

**£88.04 each**



BS EN 50291-1:2018  
BS EN 50291-2:2019



## Ei208

### Recommended for:

It is advised to fit to  
BS EN 50292:2023  
recommendations

### Additional Feature

 **AudioLINK<sup>+</sup>**  
BUILT IN

**£27.28 each**



BS EN 50291-1:2018  
BS EN 50291-2:2019



## eco-fit Range

### THE ENVIRONMENTALLY FRIENDLY ALTERNATIVE

The eco-fit range is available across the 3000 Series of Single and Multi-Sensor alarms, offering the same renowned technology, high-quality and reliability as all of Aico's home life safety products. Ideal for upgrading or retrofitting where easi-fit bases are already installed. Minimal packaging, maximum protection.

### Product Features:

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**10 alarm heads per pack**

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**Head unit only option**

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**Does not include easi-fit bases, screw packs or dust covers**

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**100%** less plastic

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**Up to 58% less paper and cardboard**

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**Visit the 3000 Series on Page 17-20 to find out more.**

**£802.00**

Based on Ei3024EF.  
Find full price list  
on page 57.



# Accessories

## Alarm Control:

Alarm control is important if you have multiple alarms around a property. This becomes even more important when you have a mixture of Smoke, Heat and Carbon Monoxide.



**Test**  
all the alarms



**Locate**  
the triggered alarm




**Silence**  
if no fire is present



**Ei450\***

**£71.93 each**

- Battery powered by a sealed in Lithium cell
- 10 year life
- Completely wire free installation
- Uses  **RadioLINK+**™ wireless technology to interconnect to the rest of the system
- LED display to show Fire or Carbon Monoxide alarm activation
- Compatible with all RF products

### Other alarm control products available:

#### **Ei1529RC\*\***

Hard-wired Alarm  
Control Switch

**£41.09 each**



\*Compatible with the following series: 3000, 2110e, 160e, 140e, 600 and the Ei208WRF.

(For compatibility, mains and battery powered alarm systems require a SmartLINK/RadioLINK+ module or RadioLINK base)

\*\*Hardwire with any mains powered series.


## Alarm Integration Interface:



**Ei414\*** - Fire/CO  
Alarm Interface

**£212.72 each**

Aico offer a wide range of products to connect alarm systems with other devices.

Use the  **RadioLINK+**<sup>™</sup> Fire/CO Alarm Interface to connect to:

- Telecare/warden call systems
- Gas shut down
- Sprinkler system

(For full functionality, alarms require RadioLINK+ or a SmartLINK module)

### Other interface products available:

#### **Ei408\***

RadioLINK Switched Input Module (triggers alarms if external devices are activated)

**£52.03 each**

#### **Ei428\***

RadioLINK Relay Module (triggers external devices if alarms activate)

**£82.98 each**

#### **Ei413\***

RadioLINK Panel Interface Module (two way communication between alarms and panel systems)

**£64.90 each**

#### **Ei129\*\***

Hard-wired Switched Input Module (triggers alarms if external devices are activated)

**£38.80 each**

#### **Ei128R\*\***

Hard-wired Relay Module (triggers external devices if alarms activate)

**£36.51 each**

#### **Ei128RBU\*\***

Hard-wired Relay Module with battery back up (triggers external devices if alarms activate)

**£60.59 each**

\*Compatible with the following series: 3000, 2110e, 160e, 140e, 600 and the Ei208WRF.

(For compatibility, mains and battery powered alarm systems require a SmartLINK/RadioLINK+ module or RadioLINK base)

\*\*Hardwire with any mains powered series.

## Alarms for Deaf & Hard of Hearing:



**Ei170RF** - RadioLINK Alarm Module for the Deaf & Hard of Hearing (Contains strobe light and pillow pad)

**£235.97 each**

Compatible with the following series: 3000\*, 600\*, 140\*, and the Ei208WRF.

\*When alarm system includes a SmartLINK/RadioLINK+ module or RadioLINK base.

**Ei171RF** - RadioLINK Strobe Light only

**£206.91 each**

**Ei174** - Pillow Pad - Additional (plugs into strobe light)

**£29.06 each**

## Strobes & Sounders:



**YO5\*** - High Output Remote Sounder

**£109.91 each**

- Mains powered
- Connect using a Relay Module\*
- IP65 rated

\*Connect using an Ei128R for a hardwired system or Ei428 for a RadioLINK system

**SAB300C\*** - Strobe Light (Clear)

**£44.04 each**

**SAB300R\*** - Strobe Light (Red)

**£44.04 each**

## Call Points:



- Allows for remote triggering of an alarm system
- Non-breaking, resettable front plates

### **Ei407\***

RadioLINK Manual  
Call Point

**£49.21 each**

### **MCP401RC\*\***

Hard-wired Manual  
Call Point

**£38.12 each**

\*Compatible with the following series: 3000, 2110e, 160e, 140e, 600RF and the Ei208WRF.

(For compatibility, mains and battery powered alarm systems require a SmartLINK/RadioLINK+ module or RadioLINK base)

\*\*Hardwire with any mains powered series.

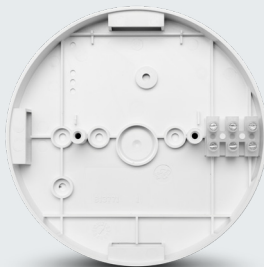
## Miscellaneous Products:



### **Ei1516 - Masking Plate**

Use the masking plate when you are upgrading alarms from the 150 Series & 260 Series to cover any previous installation footprint, saving on redecoration costs

**£1.98 each**



### **Ei127 - Surface Mounting Kit**

**£3.50 each**

### **Ei116 - Anti-Vandal Cage**

**£23.67 each**







15:36

66%



activations in the past 30 days



**60 days OVERDUE**  
for your alarm test



### My Home's Health



23°C

warmest room



24°C



22°C

coldest room



21°C



53%

most humid



57%



520

highest



778






home






# Technology


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Intelligent Dust Compensation	41

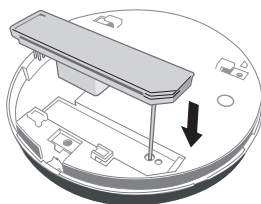


## Next generation Radio Frequency Wireless Interconnection.

 SmartLINK<sup>®</sup> technology provides the proven wireless interconnection of  RadioLINK<sup>™</sup> and  RadioLINK<sup>+</sup><sup>™</sup>, but with added functionality. It uses radio frequency signals and is completely compatible with both existing systems.

- No need for cable runs – alarms interconnect using radio frequency signals
- When one alarm is triggered, all others sound throughout the property
- Expand existing systems easily by adding in  SmartLINK<sup>®</sup> technology
- Offers remote, whole-system data monitoring and extraction with no access needed
- Sound mimic feature allowing for ease of identification between fire/CO activations

**Module  
simply plugs  
into the  
head of the  
alarm**







**Ei3000MRF -  
SmartLINK Module**  
**£66.05 each**

**COMPATIBLE  
WITH  
3000  
SERIES  
ALARMS**



### **Ei1000G The Gateway**

- Enables remote management of RF Alarms via the  HomeLINK<sup>™</sup> Portal
- Transmits data via GSM network using a built-in SIM
- Compatible with  HomeLINK<sup>™</sup>  SmartLINK<sup>®</sup> and  RadioLINK<sup>+</sup><sup>™</sup>



## The Connected Home Solution

A proven solution for challenges faced by social housing providers, tailored to their needs. Achieve strategic, operational and financial goals with HomeLINK. Our platform streamlines processes and provides actionable insights into challenges such as damp and mould, energy efficiency, fuel poverty, indoor air quality, compliance and more.



### Return on Investment

Real-time data allows a detailed insight into the health and safety of connected homes, enabling proactive measures and preventative maintenance. By streamlining services our platform offers a net return on investment.



### Data-driven decisions

Data allows your organisation to make informed decisions. Identify the properties that are most at risk and deploy resources more efficiently and effectively.



### Improved fire safety

Benefit from complete transparency into the status of connected fire and carbon monoxide alarms, with details on replacement dates, testing and potential faults. Residents can also receive regular alarm testing reminders via the HomeLINK App.



### Net Zero

Pre- and post-retrofit monitoring enables landlords to target their worst performing properties first and ensure their investments provide more comfortable and efficient homes as intended.



### Compliance

Adhere to requirements outlined in standards and legislation, such as the Homes (Fitness for Human Habitation) Act 2018, The Renting Homes (Fitness for Human Habitation) (Wales) Regulations 2022, PAS 2035, and the Energy Efficiency Standard for Social Housing.






### Health and wellbeing

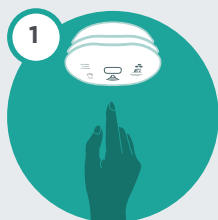
Alerts, insights and recommendations are provided via the HomeLINK App. Residents are provided with a healthy home rating, temperature, humidity and carbon dioxide data and handy advice on the measures they can take to improve the quality of their home's environment.



Real-time facts, real-time action.

Award-winning  AudioLINK+® technology makes it easy to get real-time data directly from Fire Alarms and Carbon Monoxide alarms – saving time, money and lives. All you need is an  AudioLINK+® enabled alarm, a smartphone or tablet and the free  AudioLINK+® app.

### Extract the data in three easy steps...



**1**  
Press the test button on the alarm 3 times in 5 seconds



**2**  
The alarm will emit a number of beeps. The phone/tablet will pick these up (via the microphone)



**3**  
The AudioLINK+ app will generate and display the Alarm Status Report

## The Alarm Status Report

The app generates an easy-to-read colour-coded report covering a range of data:

- ✓ Alarm activations
- ✓ Sensor status
- ✓ Record of testing
- ✓ Battery and back up cell status
- ✓ Carbon Monoxide levels from CO alarms
- ✓ Background levels of Carbon Monoxide from CO alarms
- ✓ Dust levels from 3000 Series alarms with an optical sensor
- ✓ Data can be emailed directly from a phone or tablet



# Intelligent Dust Compensation

**Aico's Dust Compensation mechanism ensures best performance and best value.**

- Reduces false alarms
- Reduced number of unit replacements
- Reduces maintenance costs
- Ideal when access for maintenance is difficult

The new Multi-Sensor Fire & CO Alarm Ei3030, the Multi-Sensor Fire Alarm Ei3024 and all optical sensors have self-monitoring Dust Compensation, which will allow the alarm to tolerate up to twice as much dust contamination than a conventional optical alarm. The optical sensor chamber continually self-monitors minute changes in dust levels. If the dust accumulates to a certain level, the alarm automatically compensates to stop false alarms but also continues accurate smoke detection. The sensor has multiple stages of compensation allowing it to adjust throughout the alarm's life. Additionally, if the alarm is cleaned with a vacuum, eliminating the dust, the alarm automatically resets the compensation settings.



## Automatic recalibration

The alarm automatically recalibrates the alarm trigger point to compensate for dust, retaining a constant threshold between the dust level and the amount of smoke needed to trigger the alarm.



The European Market Leader in  
Home Life Safety

POWERFUL **INSIGHTS.**  
PROACTIVE **MAINTENANCE.**  
PREVENTATIVE **MEASURES.**



## THE **HomeLINK®** CONNECTED HOME SOLUTION

A proven and scalable solution for the challenges faced by social housing providers, while generating a return on investment. The HomeLINK Connected Home Solution assists with:



Pinpointing the cause of  
damp and mould



Improving compliance  
& asset management



Achieving net zero



Enhancing fire safety

# Connected Home

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# The HomeLINK Connected Home Solution

Creating safer, healthier & more sustainable homes.

The HomeLINK Connected Home Solution consists of a network of fire and carbon monoxide alarms, environmental sensors and the Ei1000G Gateway that connects them all.

Install alarms and environmental sensors by scanning the device's QR code via the Installer app and follow the instructions. The Gateway must be installed to provide communication to the HomeLINK Portal.



## Where to install environmental sensors:



Bathroom



Bedroom



Kitchen



Living Room





### 3000 Series Alarms

Aico's 3000 Series alarms are connected to the Gateway via radio frequency - plug the Ei3000MRF module into the alarm head. Information is collected via the Gateway and is available on the HomeLINK Portal.



### HomeLINK Environmental Sensors

Installed in high-risk rooms to monitor temperature, humidity and carbon dioxide levels. The data is collected by the Gateway with actionable insights available via the HomeLINK Portal.



### The Gateway

The Gateway is installed within the property and extracts information from connected alarms and environmental sensors. The data is translated into actionable insights within the HomeLINK Portal.

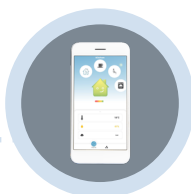


Visit our website  
to find out more



### HomeLINK Portal

Insights are displayed via a user-friendly portal. Data is extracted from all connected alarm heads and environmental sensors with room specific insights presented by high, medium and low risk.



### HomeLINK App

Residents will receive tailored recommendations, advising them on how to remedy issues or prevent them occurring.











# The Gateway

## The hub of the HomeLINK Connected Home Solution

Aico's alarms and environmental sensors connect with the Gateway; an innovative and award-winning system that provides insights into the health and safety of connected homes.

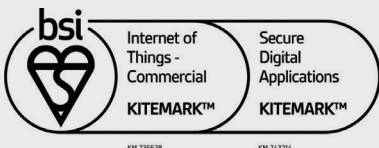


### Benefits of the Gateway

-  No broadband or Wi-Fi needed
-  SmartLINK and RadioLINK+ and HomeLINK compatible
-  Forecast replacement and maintenance
-  Easy-to-use portal
-  Real-time reporting
-  No property access required after installation
-  Email and SMS notifications
-  Reduce costs and improve efficiency
-  Compliance with standards & legislation e.g. PAS 2035 and the Homes Act
-  Improved home life safety

### The Gateway is one of few products to achieve...

the BSI Kitemark for Internet of Things (IoT) Commercial. The BSI tested the connectivity and communications within the system, the associated mobile app and cloud portal, as well as the data encryption and security of the system.



# Legislation

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Levels of Protection	48-49
BS 5839-6:2019+A1:2020	50
Legislation across the UK	51-52
Homes (Fitness for Human Habitation) Act 2018	53



# Levels of protection

## The three Categories

BS 5839-6:2019+A1:2020 states that the level of protection to occupants needs to be directly related to the fire risk. However, it does list three categories to describe the level of protection the systems provide. Where and how many alarms are installed will affect how quickly a fire is detected – generally the higher the Category, the higher the level of protection.

LD1

LD2

LD3

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### LD1 - High Protection

All areas where a fire could start (apart from bathrooms, shower rooms and toilets) e.g:

- Hallways
- Landings
- Living Room
- Kitchen
- Bedrooms





Scan the QR code for more details and guidance



## LD2 - Medium Protection

Escape routes and high risk areas, e.g.:

- Hallways
- Landings
- Living Room
- Kitchen



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## LD3 - Minimum Protection

Escape routes and circulation spaces, e.g.:

- Hallways
- Landings





# BS 5839-6:2019+A1:2020

Covers specific recommendations for fire alarm systems in all domestic premises, both for new-build and existing properties.



## Table One

### Owner Occupied

New Build (2-3 Storey)

**Grade D2, LD2<sup>D</sup>**



Grade **D2**

A system of mains-powered alarms, each with a back-up battery.

Heat alarms should be installed in every kitchen. A smoke alarm should be installed in the principal habitable room.

### Self Catering Accommodation & Supported Housing

New/Materially Altered

**Grade D1, LD1<sup>I</sup>**



Grade **D1**

A high protection system. Alarms may normally be omitted from roof voids unless there are specific significant fire hazards such as gas boilers or electrical equipment.

### Sheltered Housing

New/Materially Altered



**Individual Dwellings**

Grade **D2**

Category LD1<sup>I</sup>

**Communal Area**

Grade **A**

Category L4/L5

Alarms may normally be omitted from roof voids unless there are specific significant fire hazards such as gas boilers or electrical equipment for photovoltaic systems.

### HMO

Existing (1-2 Storey)

**Grade D1, LD2<sup>D</sup>**

Grade **D1**



Existing (3+ Storey)

**Individual Dwelling**

**Grade D1, LD2<sup>IN</sup>**

Grade **D1**



### Testing and Maintenance



All systems other than Grade A should be tested monthly.



Smoke and Heat alarms may be tested via a test button or remote switch.



### Carbon Monoxide Alarm Interconnection

Mains-powered Carbon Monoxide alarms conforming to BS EN 50291 and installed in compliance with BS EN 50292 can be interlinked with the fire detection and alarm system if the manufacturer of all the components recommends it.



## Carbon Monoxide

### Best Practice

An alarm should be installed in every room containing a fuel burning appliance, and additional alarms should be installed to ensure that adequate warning is given for occupants in other rooms, by locating alarms in:

- Remote rooms in which the occupant spends considerable time whilst awake.
- Every sleeping room.



# Legislation across the UK



## England

### Smoke & CO Legislation

**The Smoke and Carbon Monoxide Alarm (Amendment) Regulations 2022 apply to social and private rented properties in England.**

- All landlords are required to install at least one smoke alarm on each storey of their properties, where there is a room used for living accommodation.
- Any smoke alarms installed must comply with BS EN 14604.
- Landlords should refer to BS 5839-6 for the recommended installation of the required smoke alarms.
- All landlords must install CO alarms in any room of a property that contains a fuel burning appliance. Cookers are excluded, however, the use of CO alarms in rooms with a fuel burning cooker is still recommended within BS EN 50292.
- Landlords can use battery or mains-powered alarms; there is, however, no requirement for CO alarms to be interconnected.



## Wales

### The Renting Homes Act

**The Renting Homes (Fitness for Human Habitation) (Wales) Regulations 2022 apply to social and private rented properties in Wales.**

- Landlords should refer to BS 5839-6 for the recommended installation of the required smoke alarms.
- There must be a working smoke alarm on every storey of a property, e.g. hallway and landing. These alarms must be mains powered and interlinked.
- A landlord may also consider installing a heat alarm in the kitchen and smoke alarms in other high risk areas.
- A Carbon Monoxide alarm must be installed in any room which has a gas, oil or any other fuel burning appliance, including cookers.



## Scotland

### The Tolerable Standard

**The Tolerable Standard came into force in February 2022, and applies to ALL homes in Scotland.**

- Smoke alarms in every circulation space on each storey, such as hallways and landings.
- Smoke alarms installed in the room most frequently used for general daytime living purposes.
- Heat alarms installed in every kitchen.
- All smoke and heat alarms should be interlinked.
- Alarms can be either mains powered or battery powered.
- Carbon Monoxide (CO) alarms to be fitted where there is a fuel burning appliance or a flue.



## Northern Ireland

### The Private Tenancies Act

#### Carbon Monoxide Alarms

- Must be installed in any room or circulation space which contains a fixed combustion appliance or a flue.

#### Smoke Alarms

- Must be installed in every circulation space on each storey, and the room which is most frequently used by the occupants for general daytime living purposes (e.g. living room/lounge).

#### Heat Alarms

- Must be installed in every kitchen.

Note: All smoke and heat alarms need to be interconnected with each other.

Scan the QR code for  
more details and guidance







# Homes (Fitness for Human Habitation) Act 2018

The Homes (Fitness for Human Habitation) Act 2018 has applied to nearly all tenancies in existence since the 20<sup>th</sup> March 2019. The legislation requires all landlords, both private and social, to ensure that their properties are fit for human habitation, and requires compliance with the Housing Health and Safety Rating System (HHSRS). When a landlord fails to meet these obligations, residents have the right to take action in court.

## Compliance with the HHSRS

The HHSRS is a risk based evaluation tool that provides guidance for landlords in relation to the safety of their housing stock, outlining the hazards and disrepair to be avoided.

### Safety

- ✗ Asbestos and manufactured metal fibres
- ✗ Carbon Monoxide
- ✗ Fuel gas (leaks in gas appliances)
- ✗ Volatile organic compounds
- ✗ Food safety
- ✗ Falls - bath or shower, stairs, steps
- ✗ Electrical hazards
- ✗ Fire and fire safety
- ✗ Entry by intruders (not having lock on door)

### Environmental

- ✗ Serious problem with damp
- ✗ Not enough ventilation
- ✗ Damp and mould growth
- ✗ Biocides (chemicals that treat mould)
- ✗ Domestic hygiene, pests and refuse

### Quality of Life

- ✗ Not enough natural light
- ✗ Problem with hot and cold water
- ✗ Personal hygiene, sanitation and drainage
- ✗ Difficult to cook food or wash up
- ✗ Excess cold
- ✗ Excess heat
- ✗ Crowding and space
- ✗ Lighting
- ✗ Noise

### Structural

- ✗ The building has been neglected and is in a bad condition
- ✗ The building is unstable
- ✗ Physical strain associated with operating amenities (i.e very heavy doors)
- ✗ Structural collapse and falling elements

## Using technology to mitigate disrepair claims

Through utilising Internet of Things (IoT) and Machine Learning technologies within properties, landlords can gather information and receive alerts as soon as a potential safety hazard occurs, creating safer, healthier homes for residents. For example, Environmental Sensors can detect the risk of damp and mould, as well as excess cold, excess heat, draught risk and indoor air quality.

**Visit The HomeLINK Connected Home Solution for more information. Pages 44-45.**



# Product List

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Complete List of Products

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# Product List

Product Reference	Item Description	Trade Price ea.	Page No.
Ei1000G	The Gateway, Mains with lithium battery back-up	£296.01	21
Ei1020	The Temperature and Humidity Environmental Sensor	£156.83	21
Ei1025	Temperature, Humidity and CO <sub>2</sub> Environmental Sensor	£205.07	21
Ei116	Anti-vandal cage for use with 3000 and 140e Series Alarms	£23.67	34
Ei127	Surface Mount Kit for 3000 and 140e Series Alarms	£3.50	34
Ei128R	Relay Module Mains powered with 5A relay for use with 3000 and 140e Series Alarms	£36.51	32
Ei128RBU	Relay Module Mains powered with 5A relay & 10 year lithium battery back-up for 3000 and 140e Series Alarms	£60.59	32
Ei129	Switched Input Module Mains powered with 10 year lithium battery back-up for 3000 and 140e Series Alarms	£38.80	32
Ei144e	Heat Alarm. Mains powered with alkaline battery back-up and easi-fit base	£44.93	26
Ei146e	Optical Smoke Alarm. Mains powered with alkaline battery back-up and easi-fit base	£35.11	26
Ei1516	Masking plate for changing from 150 Series alarms to 3000 and 140e Series Alarms	£1.98	34
Ei1529RC	Alarm Control Switch for use with 3000 and 140e Series Alarms	£41.09	31
Ei168RC	RadioLINK base - Mains powered with 10 year lithium battery back-up for 140e Series Alarms	£66.05	27
Ei170RF	RadioLINK Alarm for Deaf/Hard of Hearing - Mains powered with 10 year lithium battery back-up for use with 3000 and 140e Series Alarms. Includes strobe light & vibrating pad	£235.97	33
Ei171RF	RadioLINK Flashing Strobe. Mains powered with 10 year rechargeable lithium back-up for use with 3000 and 140e Series Alarms	£206.91	33
Ei174	Vibrating Pad for use with Ei170RF	£29.06	33
Ei208	AudioLINK+ Carbon Monoxide Alarm with sealed in 10 year lithium cell. Battery powered	£27.28	28
Ei208WRF	AudioLINK+ & RadioLINK+ Carbon Monoxide Alarm with sealed in 10 year lithium cell. Battery powered	£88.04	28
Ei3000MRF	SmartLINK module for use with 3000 Series Alarms	£66.05	20

• These products are available but not listed in this publication, please check the website or contact us for more details.

Product Reference	Item Description	Trade Price ea.	Page No.
<b>Ei3014</b>	Heat Alarm. 230V with 10 year rechargeable lithium back-up. AudioLINK+. SmartLINK upgradeable	£64.02	20
<b>Ei3014EF</b>	eco-fit Heat Alarm. 230V with 10 year rechargeable lithium back-up. AudioLINK+. SmartLINK upgradeable (10 pack)	£640.16	30
<b>Ei3016</b>	Optical Alarm. 230V with 10 year rechargeable lithium back-up. AudioLINK+. SmartLINK upgradeable	£61.48	19
<b>Ei3016EF</b>	eco-fit Optical Alarm. 230V with 10 year rechargeable lithium back-up. AudioLINK+. SmartLINK upgradeable (10 pack)	£614.83	30
<b>Ei3018</b>	Carbon Monoxide Alarm. 230V with 10 year rechargeable lithium back-up. AudioLINK+. SmartLINK upgradeable	£75.58	20
<b>Ei3018EF</b>	eco-fit Carbon Monoxide Alarm. 230V with 10 year rechargeable lithium back-up. AudioLINK+. SmartLINK upgradeable (10 pack)	£755.82	30
<b>Ei3024</b>	Multi Sensor - Optical & Heat Alarm. 230V with 10 year rechargeable lithium back-up. AudioLINK+. SmartLINK upgradeable	£80.19	19
<b>Ei3024EF</b>	eco-fit Multi Sensor - Optical & Heat Alarm. 230V with 10 year rechargeable lithium back-up. AudioLINK+. SmartLINK upgradeable (10 pack)	£802.00	30
<b>Ei3028</b>	Multi Sensor - Heat & CO Alarm. 230V with 10 Year chargeable lithium back-up. AudioLINK+. SmartLINK upgradeable	£98.91	19
<b>Ei3028EF</b>	eco-fit Multi Sensor - Heat & CO Alarm. 230V with 10 year rechargeable lithium back-up. AudioLINK+. SmartLINK upgradeable (10 pack)	£989.21	30
<b>Ei3030</b>	Multi Sensor - Heat, Smoke & CO Alarm. 230V with 10 Year chargeable lithium back-up. AudioLINK+. SmartLINK upgradeable	£110.38	18
<b>Ei407</b>	RadioLINK Manual Call Point with sealed in 10 year lithium cell	£49.21	34
<b>Ei408</b>	RadioLINK Switched Input Module with sealed in 10 year lithium cell	£52.03	32
<b>Ei413</b>	RadioLINK Panel Interface	£64.90	32
<b>Ei414</b>	RadioLINK+ Fire/CO Alarm Interface. Mains powered with 10 year rechargeable lithium back up	£212.72	32
<b>Ei428</b>	RadioLINK Relay Module with 5A relay. Mains powered with 10 year rechargeable lithium back-up	£82.98	32
<b>Ei450</b>	RadioLINK Alarm Controller with sealed in 10 year lithium cell. Fire and CO indicators	£71.93	31

• These products are available but not listed in this publication, please check the website or contact us for more details.

Product Reference	Item Description	Trade Price ea.	Page No.
<b>Ei630iRF</b>	RadioLINK+ Heat Alarm with sealed in 10 year lithium cell. Battery powered	£102.24	23
<b>Ei650i</b>	Optical Smoke Alarm with sealed in 10 year lithium cell. Battery powered	£39.78	23
<b>Ei650iRF</b>	RadioLINK+ Optical Smoke Alarm with sealed in 10 year lithium cell. Battery powered	£100.56	23
<b>Ei660i</b>	Multi-Sensor Fire Alarm with sealed in 10 year lithium cell. Battery powered	£51.89	23
<b>Ei660iRF</b>	RadioLINK+ Multi-Sensor Fire Alarm with sealed in 10 year lithium cell. Battery powered	£112.67	23
<b>MCP401RC</b>	Manual Call Point. Mains powered with 10 year rechargeable lithium back-up for use with 3000 and 140e Series Alarms	£38.12	34
<b>MCPSK2</b>	Spare key for MCP401RC Manual Call Point	£1.25	•
<b>MCRSK</b>	Spare key for Ei407 Manual Call Point	£1.25	•
<b>SAB300C</b>	Xenon Strobe Light - Mains powered with clear lens	£44.04	33
<b>SAB300R</b>	Xenon Strobe Light - Mains powered with red lens	£44.04	33
<b>YO5</b>	Multi Frequency Sounder	£109.91	•
<b>EASI-FITBASE</b>	Easi-fit base for use with 3000 and 140e Series Alarms	£4.25	•
<b>EIREDSTICKER</b>	Distribution board sticker	£0.70	•
<b>XXDCOVER</b>	Dust cover	£0.70	•

• These products are available but not listed in this publication, please check the website or contact us for more details.

# Our RM Network

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Find Your RM

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