



The smarter way to full circle protection

3000 Series alarms + SmartLINK® Gateway

Working together to improve safety



an **Ei** Company



Aico specialise in residential Fire & Carbon Monoxide (CO) protection

It's all we do and have done for over 30 years.

We have more mains powered alarms fitted in homes across the UK than any other manufacturer and are the only Smoke, Heat and CO Alarm manufacturer to test every single alarm multiple times during the manufacturing process.

By fitting Aico, you can be confident you're getting the best protection.

Tried, tested, trusted.

an  Company



Contents

3000 SERIES ALARMS

The 3000 Series	6
Ei3028	8
Ei3024	10
Meet the rest	12
Dust Compensation	14
Easi-fit	15
AudioLINK	16
SmartLINK	19

SMARTLINK GATEWAY

Ei1000G SmartLINK Gateway	24
How the Ei1000G works	26
Keep up to date with safety	28
What our customers say	29

ABOUT AICO

About Aico	30
------------	----

OUR RSM NETWORK

Find your RSM	31
---------------	----

3000 Series alarms and SmartLINK® Gateway.

Safety, made smarter.



Innovations working together to improve safety.

Our technologically advanced 3000 Series offers 'full circle' protection, with the ability to detect both Fire and Carbon Monoxide (CO) combined with the simplicity of specifying a whole property from just one range.

The unique SmartLINK® wireless interconnection and data monitoring module removes tricky cable runs and allows 3000 Series alarms to connect with each other so that when one alarm is triggered, all others sound for audibility throughout the property. Smart, connected and future-proof.

And with the addition of our unique SmartLINK® Gateway, social landlords have the ideal alarm management system to check on every tenant's safety at any time. The Gateway and Cloud portal use SmartLINK® technology to bring together data from all the alarms in a building in a simple format – making maintaining data simpler, management easier and maintenance more efficient.



SmartLINK® A Revolution In Tenant Safety

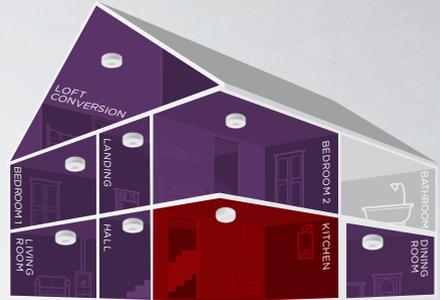


The 3000 Series

Full Circle Protection



The 3000 Series provides whole property coverage from one series. This technologically advanced series detects both Fire and Carbon Monoxide (CO), ensuring your whole property is protected.



Intelligence in every alarm. Simplicity in every install.

 Mains powered with 10 year rechargeable Lithium cell back-up

 Specify a whole property from one series

All alarms in the series fit on  bases

 Quick and reliable interconnection

Real time local data extraction using  AudioLINK™

 SmartLINK® capability for wireless interconnection, data extraction and whole system monitoring

 Combined test/silence button

 5 year guarantee

 3rd party BSI accredited

 Made in Ireland



Ei3028

The Multi-Sensor Heat & Carbon Monoxide Alarm

There are a number of Fire & Carbon Monoxide (CO) risks within a typical home. For example, cookers in kitchens pose a fire risk, being responsible for 48% of accidental fires in dwellings*. In addition, many of these areas also contain gas fuelled appliances such as boilers which present an additional risk from CO – a poisonous gas that you can't see, smell or taste.

At one time, two alarms would have been needed to protect against both risks - a Heat Alarm and a CO Alarm. But with the 3000 Series, it's possible to offer full circle protection in a single alarm using the Ei3028 Multi-Sensor.

* Fire statistics: England April 2019 to March 2020



The alarm contains our **tried and tested** thermistor heat sensor and our **proven** electrochemical CO sensor, providing **protection** from both Fire and CO.

Additional benefits of the Ei3028

- ✓ **Install one alarm** instead of two for combined Fire & CO coverage
- ✓ Contains two proven, reliable sensors
- ✓ Flashing Fire and CO indicators

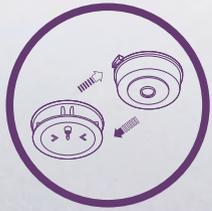


Ei3024

The Multi-Sensor Fire Alarm

Smoke alarms have different sensors to detect different fire types. The Ei3024 Multi-Sensor Fire Alarm makes sensor choice simple. Its combination of a Heat and an Optical sensor intelligently work together, meaning that it can detect all fire types, quicker and more accurately.

Data sent between dual sensors monitoring heat and smoke levels



If a rise in temperature is detected by the Heat sensor...



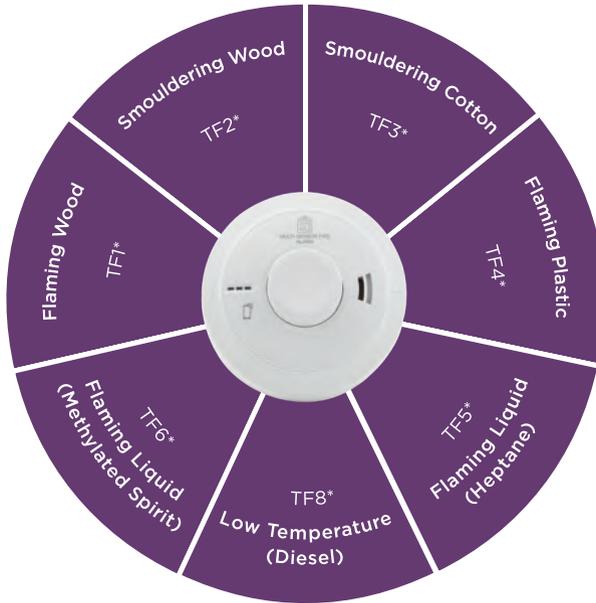
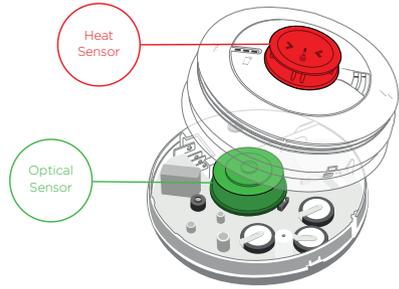
...data will relay to the Optical sensor, increasing it's sensitivity to smoke



+

=

The **intelligent alarm software** actively monitors both sensors, providing **total fire coverage**.



* Test Fires Category

Additional benefits of the Ei3024

- ✓ **Contains two proven, reliable sensors**
- ✓ **Intelligent software** allows the sensors to work together
- ✓ **Intelligent Dust Compensation** and mesh insect shield around the Optical sensor to reduce false alarms

Meet the rest of the **3000 Series**



Ei3018

CO Alarm (Single Sensor)

Contains our proven electro-chemical sensor and for the first time, this CO alarm fits on our

easi-fit base.



Ei3016

Optical Alarm (Single Sensor)

Intelligent dust compensation and insect mesh shield for reduction of false alarms

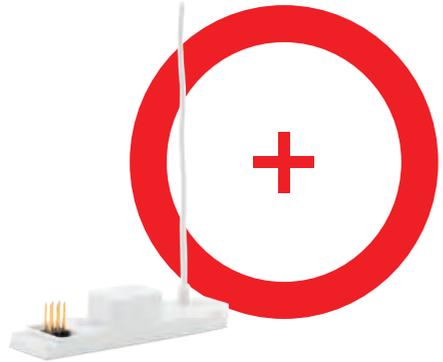




Ei3014

Heat Alarm (Single Sensor)

Fast response thermistor
(triggers at 58°C)



Ei3000MRF

SmartLINK Module

The  SmartLINK[®] Module allows for wireless interconnection and data monitoring. Simply plug in to any 3000 Series alarm head.

Dust Compensation

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

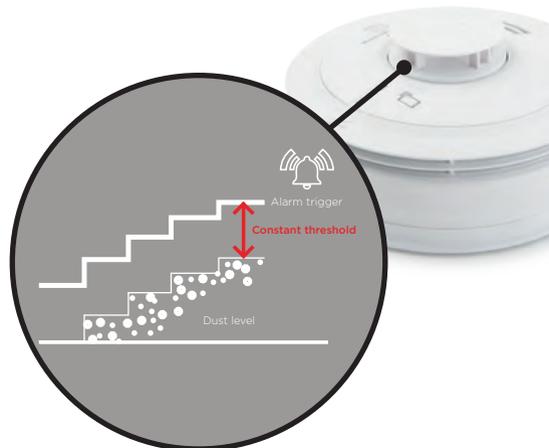
- Reduces false alarms
- Reduced number of unit replacements
- Reduces maintenance costs
- Ideal when access for maintenance is difficult

The Multi-Sensor Fire Alarm Ei3024 and Optical Ei3016 have unique 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.

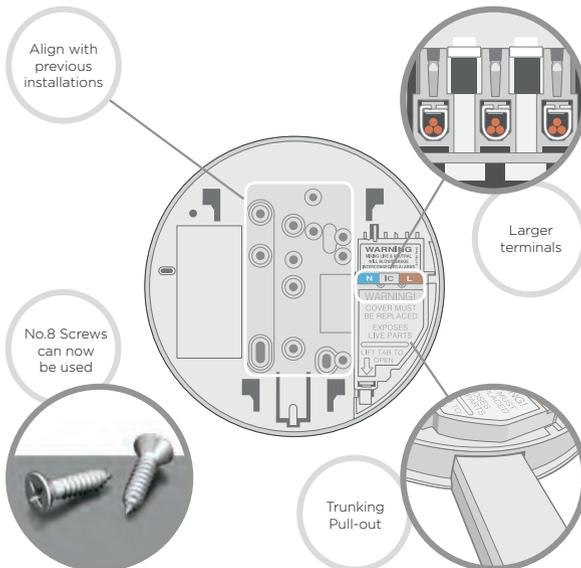




Designed by Installers. Built by Aico.

All alarms in the 3000 Series maintain our renowned easi-fit base. This includes the Ei3018 CO Alarm, our first ever CO Alarm on an easi-fit base which means you can now install an entire property, from one series, on the same base.

By maintaining the same footprint, it is easier and quicker for installers to swap an older Aico Alarm for a 3000 Series Alarm. Simply slide off the old alarm and slide on the new 3000 Series alarm. The easi-fit base continues to give quick, reliable installation of new alarms also. All the features that we included from our Installers' feedback still make for our best base design yet.





Real time facts, real time action

The entire 3000 Series contains AudioLINK technology, which allows you to extract real time data from the Alarm using its sounder directly to a smartphone or tablet via a free App.

AudioLINK can be used:

- ✓ As part of the property checks prior to change of tenants
- ✓ To keep a record of the alarm's history
- ✓ To generate real time information if a tenant reports an issue with the alarms
- ✓ As an asset management tool

Extract the data in three easy steps...



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



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



The AudioLINK app will generate and display the Alarm Status Report

The Alarm Status Report

The Alarm Status Report generated will be for the life of the alarm so far. It is colour coded to identify the urgency of any issues. This information can be used to tell if there are any immediate issues with the alarm, for example if the alarm is coming to the end of its life, and deal with them directly.

The image shows two smartphone screens displaying an 'Ei3028 Report' for a device. The report is color-coded to indicate the urgency of various issues. The larger phone on the right has callout lines pointing to specific data points in the report.

Category	Value	Last Time
ALARM AGE	10.6 days	-
REPLACEMENT DATE	Jan 2028	-
MAINS POWER STATUS	OFF	-
TIMES MAINS POWER OFF	0	-
ALARM ON FOR	3.7 days	-
BATTERY	100%	-
LOW BATTERY	0	-
SENSOR STATUS	OK	-
TEST BUTTON ACTIVATIONS	3	0.3 days
TIMES ALARM REMOVED	0	-
HIGH CO	0	-
MEDIUM CO	1	0.3 days
LOW CO	2	0.6 days
PEAK CO LEVEL	100ppm	1 day
PRESENT CO LEVEL	0ppm	-
BACKGROUND CO	10	0.3 days
HEAT	0	-
PEAK TEMPERATURE DETECTED	30°C	0.7 days
HIGHEST TEMPERATURE DETECTED	19°C	0.9 days
PRESENT ROOM TEMPERATURE	24°C	-

Callout labels for the larger phone:

- Age of alarm
- Replacement date
- Alarm head removals
- Carbon Monoxide Activations
- Background Carbon Monoxide levels
- Heat Activations
- Peak Temperature detected

Report Storage and Sharing

Reports can be saved and emailed directly from the phone or tablet to one or multiple addresses, being sent as a PDF report or exported as a .CSV file for simple integration with housing management and maintenance systems.

Benefits of AudioLINK

- ✓ **Data can be extracted simply** by using a smartphone/tablet and our free App
- ✓ **Extraction can be done on-site, with an alarm in-situ**
- ✓ **Can save time for response** as the contractors are on-site and able to gain access to real time fact
- ✓ **Data can be extracted multiple times**
- ✓ **Data is stored for the life of the alarm** enabling historic information to be retained
- ✓ **Alarm Status Report provides evidence** required for maintenance of records

And saves time, money and lives



The **next generation** of Radio Frequency **Wireless** Interconnection

The 3000 Series also advanced our award-winning Radio Frequency (RF) Wireless Interconnection and Data Monitoring technology, making it smarter, easier and future-proof.

Wireless Interconnection

SmartLINK technology provides the same proven wireless interconnection technology as RadioLINK and RadioLINK+, using Radio Frequency signals and is completely compatible with both existing systems.

✓ **No need for tricky cable runs, alarms interconnect using Radio Frequency signals**

✓ **Expand existing systems easily by adding in SmartLINK technology**

✓ **When one alarm is triggered, all others sound for audibility throughout the property**

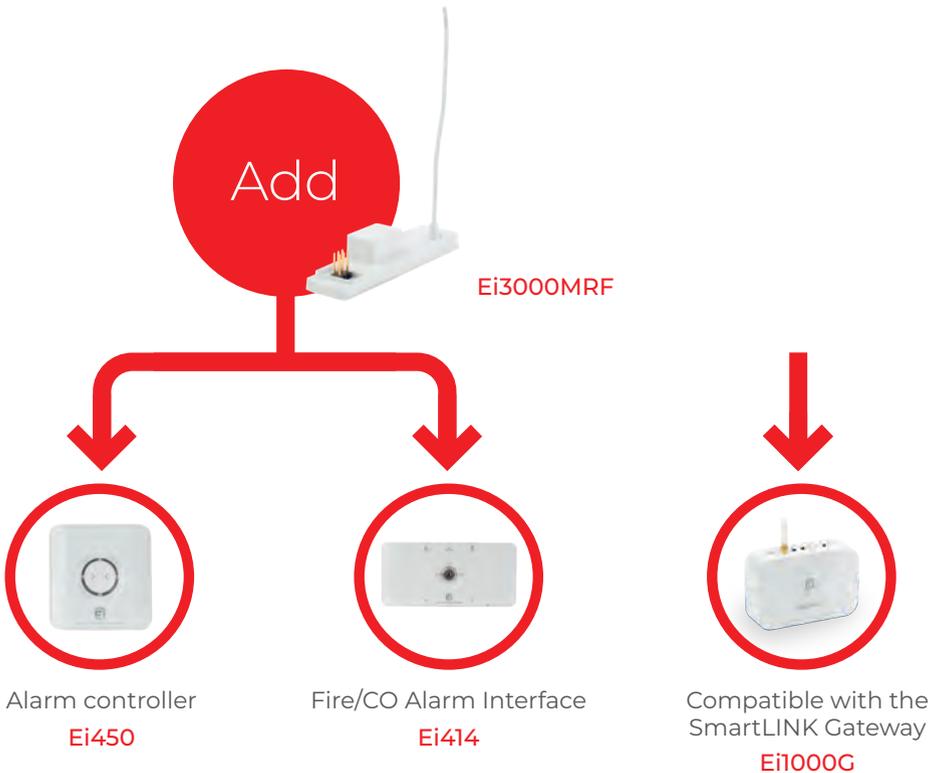
✓ **Achieve remote whole-system data monitoring and extraction when access is not possible**

To add SmartLINK technology to your system, simply plug SmartLINK modules into any 3000 Series alarm head.



Compatible Accessories

Add the Ei3000MRF for wireless interconnection to...



Additional accessories are available.
See www.aico.co.uk/product-range/ for more information.

House Coding

To ensure all the alarms in your system sound when one is triggered, they must be House Coded together. When House Coded, the alarms will learn each other as a system to ensure secure interconnection and no cross-signals with any neighbouring systems. We've made House Coding as simple as possible to reduce time at install, whilst keeping it secure and reliable. For more information about how to House Code, visit:

www.aico.co.uk/house-coding

Remote House Coding

Want to expand a system with extra alarms for increased coverage? Not only do you no longer have the disruption of running new interconnect cable, you now also save time at install as we've made House Coding new alarms to an existing system even quicker and easier.



The Ei1000G SmartLINK[®] Gateway

**The smarter way to check every
tenant's safety. At any time.**



The Gateway and Cloud portal use Aico's SmartLINK technology to bring together data from all SmartLINK-enabled alarms in a property in a simple, online dashboard format – so viewing and managing them is easier and more effective.

Simplicity for every installation

✓ Say goodbye to manual checks, spreadsheets and access issues

✓ Track alarm performance in real-time

✓ Easy installation, reliable connection

✓ Forecast replacement and maintenance



SmartLINK® A Revolution In Tenant Safety

The Alarm Management System social landlords have been waiting for.

Combined with SmartLINK-enabled 3000 Series alarms, the Ei1000G Gateway is a revolution in tenant safety.

It's been designed using feedback from landlords, who told us maintaining data for their properties is complex and time-consuming too. That gaining access to properties can be an issue. And that they need the reassurance of compliance to protect their tenants. All of which are designed into the Gateway to make life easier, improve efficiency and reduce costs.



**No cabling or
Wi-Fi needed**



**Real-time anytime
reporting**



**SmartLINK
compatible**



**No property
access required after
initial installation**



**Forecast
replacement &
maintenance**



**Email or SMS
notifications**



**Easy-to-use
dashboard**



**Reduce costs,
improve efficiency**



Say goodbye to manual checks, spreadsheets and access issues

The innovative Ei1000G uses SmartLINK wireless interconnection technology to link every alarm in a property to give you the full picture via an online portal, using any device.



Track alarm performance in real-time

The system constantly monitors every linked alarm, giving you real-time updates with notifications sent by email or text if any issues occur – or if an alarm is about to reach end of life and needs replacing.



Easy installation, reliable connection

Rather than Ethernet cabling or Wi-Fi, the Ei1000G uses the best-available mobile network connection to send data to the portal – providing simpler installation and better reliability.

How the Ei1000G Gateway works

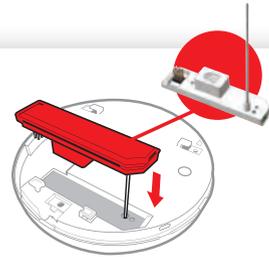
Aico's unique SmartLINK technology enables each compatible alarm to connect with others in a property with no tricky cable runs, while the Gateway collectively transmits data to the Cloud portal to provide real-time monitoring. It's a mains-powered roaming 2G GSM-based device with battery back-up too, for maximum connectivity without the need for local broadband or Wi-Fi services.

1



Take any 3000 Series alarm

2



Simply plug in Ei3000MRF SmartLINK module for wireless interconnection between alarms and to communicate with the Ei1000G SmartLINK Gateway

3



Install the Gateway to provide communication to the SmartLINK Cloud Portal

4



Setup the Cloud portal to deliver

- Live monitoring of connected SmartLINK alarm systems
- Details of system installations
 - Notifications of alarm activations and system events via text message or e-mail



Easy-to-use dashboard format

Collated data is presented in a simple configurable format with sufficient detail to drill deeper using various reporting tools to analyse a properties' Fire and CO alarm performance.



Forecast replacement and maintenance

The reporting tools not only allow events to be checked, but also accurately forecast alarm replacement and maintenance – helping to ensure your tenants are always protected.



Identify trends in alarm notifications

Alarm notification trends also help to highlight other potential problems – e.g. if a CO Alarm is regularly activated early in the morning, it could point to an issue with the heating system.

Keep up to date with safety

The real-time data fed from the alarms via the Gateway to the Cloud portal can be viewed on any device. The portal acts as a hub, keeping you up to date with any alarm events or maintenance information, with features including:

- Real-time alarm status
- Fault status
- Installation reports
- Replacement and fault reports
- Text alert and e-mail notification for both Fire/CO and fault events



What our customers say

The Hyde Group

“ The Aico Ei1000G Gateway system enables us to proactively monitor smoke alarms in our homes. The location we initially installed the system in requires an enhanced monitoring function because it suffers from false alarms and tampering. The Gateway enables us to monitor the system in real time, providing specific and useable information to offer a truly safer home.

JACK BERNARD, COMPLIANCE CONTRACT MANAGER

Bassetlaw Council

“ With concerns about access and a duty of care to tenants, making sure the alarms are working, they have power and they haven't been tampered with is so important. With the Gateway I can do all of this, even in properties where we have limited access, I can monitor for any problems. The Gateway gives me a better tool to work with.

ANDREW NORMAN, ELECTRICAL ENGINEER

About Aico



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.



Quality

Aico are committed to providing the highest quality Smoke and Carbon Monoxide Alarms designed to provide the most reliable life-saving detection. As a wholly owned subsidiary of Ei Electronics, all alarms are manufactured at the Ei Electronics factory in Shannon, Ireland. During the manufacturing process, every single alarm is tested at multiple points to ensure consistent high quality and ultimately reliability across all products.



Service

As the UK market leader, we also pride ourselves on our market leading levels of customer service. We have a team of Regional Specification Managers across the UK on hand to support you with everything from alarm selection guidance to advice on install as well as supporting Wholesaler branches. Our Internal Sales team also provide over the phone support as well as ensuring orders are dealt with correctly and promptly. The Technical Team can support you with any more complicated queries and to aid you with specifications if needed.



Innovation

Innovation, research and development are the life blood of Aico and its parent company, Ei Electronics. All the alarms and accessories are not just manufactured in the factory, but are developed with input from Aico and the customer feedback Aico have gained.

Aico is a wholly owned subsidiary of Ei Electronics

Ei Electronics is the acknowledged market leader in residential fire safety products and is one of Ireland's largest indigenous electronics companies, employing more than 800 people. Over 100 million alarms have been manufactured in Ireland since the company began 50 years ago.

an  Company

Find your **Local Regional Specification Manager**

Aico have Regional Specification Managers situated throughout the UK that can help in a consultative role to advise on alarm selection, siting, installation and maintenance.

To find your nearest **Regional Specification Manager**, please visit our website.

www.aico.co.uk/RSM

SCAN CODE
WITH PHONE



Need to contact us?

Aico Ltd
Maesbury Road
Oswestry
Shropshire
SY10 8NR

Tel: 01691 664100

Fax: 01691 664111

General
enquiries@aico.co.uk

Sales
sales@aico.co.uk

Technical
technical@aico.co.uk

Marketing
marketing@aico.co.uk

Keep updated with the
latest Aico news





Education | Quality | Service | Innovation

Aico Ltd

Maesbury Road

Oswestry

Shropshire

SY10 8NR

T 01691 664100 F 01691 664111

E enquiries@aico.co.uk

www.aico.co.uk

DECEMBER 2020

© Aico Ltd. Illustrations, photographs, part numbers, layout and style are considered property.

Any reproduction, in whole or in part, is strictly prohibited without written permission. Our policy is one of continuous improvement; we reserve the right to amend designs and specifications without prior notice. Every care has been taken to ensure that the contents of this document are correct at the time of printing and we shall be under no liability whatsoever for any errors or omissions.

Apple, the Apple logo and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries and regions. App Store is a service mark of Apple Inc.

Google Play and the Google Play logo are trademarks of Google LLC.

an  Company

The "Ei" logo consists of a stylized white 'E' with a small house-like shape on top, followed by a lowercase 'i'.

Aico Ltd is a wholly owned subsidiary of Ei Electronics - Europe's
Leader in Residential Fire + Gas Detection