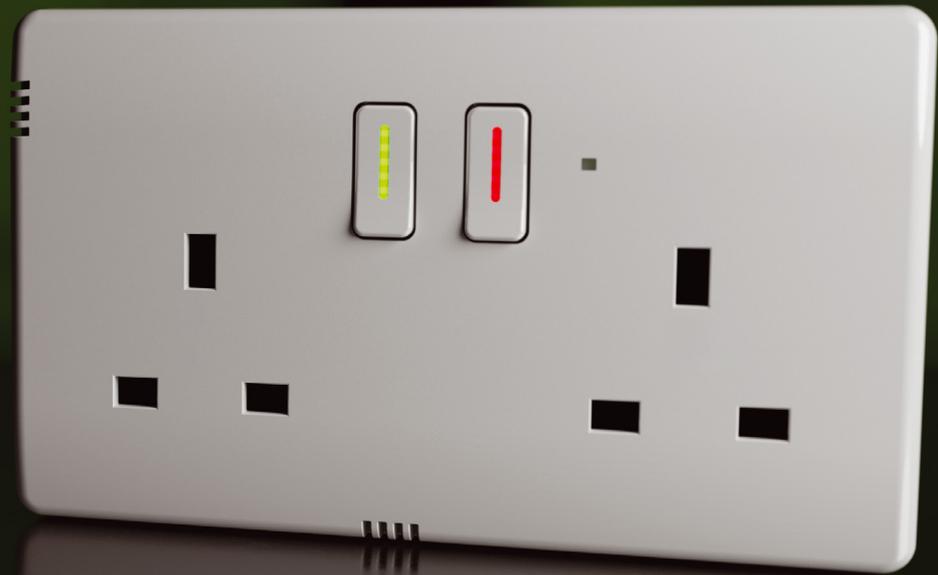




**Ci Global**

**CONNECTED  
INNOVATIONS  
FOR A SAFER  
WORLD**

The **safest** and  
**smartest** socket  
in the world.



Ci Global sockets help to prevent the main causes of electrical fires and provide smart energy management solutions for a diverse range of residential and commercial applications.

# The Founder

As an innovator, with Home Office accreditation spanning over 30 years, I have worked on improving safety systems for Network Rail and the Police. I have delivered large scale Government projects, with public safety at the heart of many of my inventions.

After the tragic events at Grenfell Tower, I became aware that many household fires start because of faulty electrical goods that we all rely on. Of even greater concern was the fact many of these fires occur during sleeping hours making them particularly life-threatening.

I saw an urgency to channel my expertise and started to work on how I can use technology to bring about greater safety within the home. I wanted to use technology to not only detect but also act, to protect families and prevent such unnecessary loss of life. Looking at existing fire safety solutions it was clear they are predominantly focussed on detecting fire or suppressing it once it starts. What was evident was the need for a solution that would prevent electrical fires from ever starting in the first place.

Today we have solutions that will protect residential homes from the risk of electrical fires together with a wide range applications that can be installed in commercial buildings from data centres to plant rooms, warehouses to office blocks.

Whilst this journey is one in which I will never rest, I am proud to say we have come a long way to achieving our goal of making the world a safer place.

The challenge now is to ensure our solutions are deployed as widely as possible to save people and property from the devastating consequences of electrical fires.

**Anthony D Parfitt — Chairman & CEO (Founder)**



Find out more about the life critical & safety products previously designed by our founder.

**[ci.global/founder](https://ci.global/founder)**

Fire caused by faulty plug

# Addressable Issues



## Residents evacuated as crews battled 'very intense' fire in London tower block

Terrified residents of Dubai inferno tower say officials were supposed to replace building's cladding but did not complete the job as it is revealed all inside were evacuated unharmed

- Blaze started at 2.20am before spreading through the block, part of a complex called 8 Boulevard Walk
- Dramatic footage shows flames engulfing an entire corner of the 35-storey building, close to Burj Khalifa
- The fire was extinguished by 3.45am and no one has been reported injured

Pictured: 'Hero' son who died after trying to save his father from house fire sparked by an e-bike which was left charging overnight

- Gary Shearer died after trying to save his father Rab Shearer, from a house fire
- The fire was accidental and caused by an e-bike charging overnight in Litherland

## Jersey explosion: Three dead and around 12 missing after block of flats collapses

Huge blast in early hours of Saturday morning caused three-storey building in St Helier to collapse



Following energy-saving advice burned down our home: Family of six's home is destroyed by fire after they used tumble dryer at night to save cash in cost-of-living crisis

LITHIUM-ION BATTERY FIRES

## Government action urged as new figures show surge in lithium-ion battery fires

Whitechapel fire: Residents claim they heard no alarms, as blaze breaks out in London high-rise

The building's managers say they... policy where a smoke ventilation system activates, but no alarms

Monday 7 March 2022 21:15, UK



Firefighters say electric bike caused horror blaze in Bristol flat which led to death of man 'who plunged from 16th floor while trying to escape'

France

Apartment fire in... including five children




London Fire Brig  
@LondonFire

A house fire in #Haina...  
hospital, is believed to...  
aw six people taken to...  
a charging e-bike battery

### Electrical fires

Current electrical fire safety solutions focus on detection rather than prevention.

### High-rise building, fire-fighting and evacuation strategy

Existing evacuation policies and fire-fighting strategies are ineffective and out of date.

### Electrical fire deaths

Too many lives are lost to PREVENTABLE electrical fires.

# Aon: Water Damage Protection Systems Can Improve Claims by More Than Half

As the value of the claim increases, protection systems offer greater mitigation.

Water damage is a common pain in commercial real estate that can be enormous in its effects and costs. It is the leading cause of claims in frequency and dollar value, constituting 47% of all insurance claims, according to a **new report from Aon Canada's Real Estate Practice**.

But the point of the report was more than tallying losses. It was a study of the benefits that leak detection can offer. The examination was based on five years of data from a large



## Hillingdon fire live: 17 residents evacuated as fire rips through care home

The fire broke out in the early hours of the morning

## Turkey's earthquake caused \$34 billion in damage. It could cost Erdogan the election

## Warning over electrical pipes and heaters amid 40pc rise in fire claims

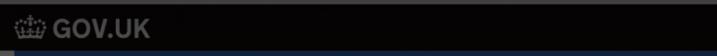
Risk of fire has increased as many consumers struggle to pay rising energy bills



### Property damage

Escape of water and fire & explosion account for 47% of all home insurance claims. Early detection reduces repair costs.

## Whirlpool to recall a further 55,000 washing machines



Home > Product Safety Alerts, Reports and Recalls

## Product Safety Report: Black and white portable heater sold via Amazon (BOBRW4YQ7S) (2301-0086)

Product Safety Report for Black and white portable heater sold via Amazon presenting a serious risk of fire.

## After fires and smoke inhalation injuries, over 660,000 washing machines were recalled

NEWS

## Recall alert: These washing machines can start a fire

## Popular household appliance urgently recalled over fire risk

The faulty appliances pose a risk of injury to a consumer and damage to property.



### Faulty electrical appliances

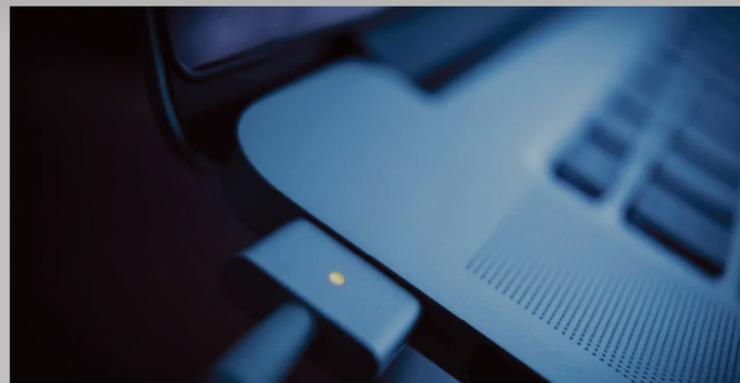
Over half of all house fires are caused by faulty white goods. Manufacturers cannot monitor their appliances and in cases of product recall, are unable to locate them.

## Budget 2023: 'My energy bills have doubled to £3,000 in a year'

## UK unveils next step to drive national energy consumption down by 15%

The government has appointed the chief of NatWest as co-chair of the UK's Energy Efficiency Taskforce

**The energy-hungry white goods adding £130 to bills: Which? study reveals fridges, dishwashers and washing machines with highest running cost...so how many do you have in YOUR home?**



## Energy supplier counts cost of devices on start-up

© 27 April 2022 · Comments

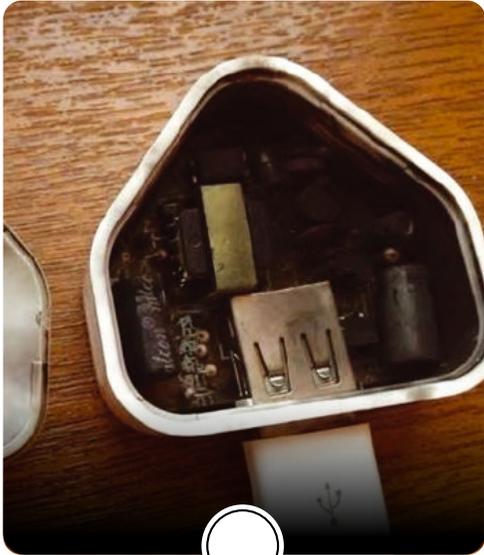
## London children's homes face energy bill



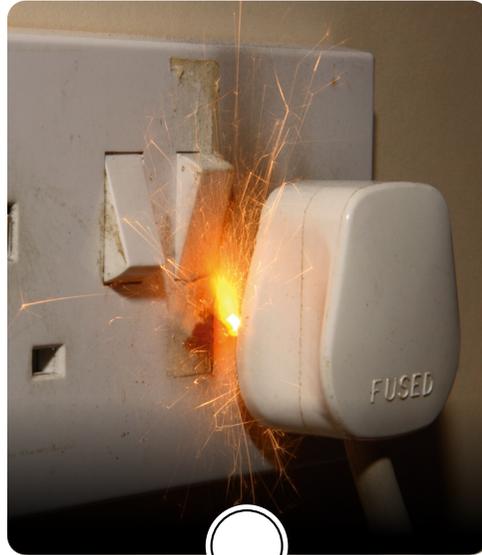
### Rising energy bills and carbon net-zero

Consumers struggle to effectively manage their energy consumption.

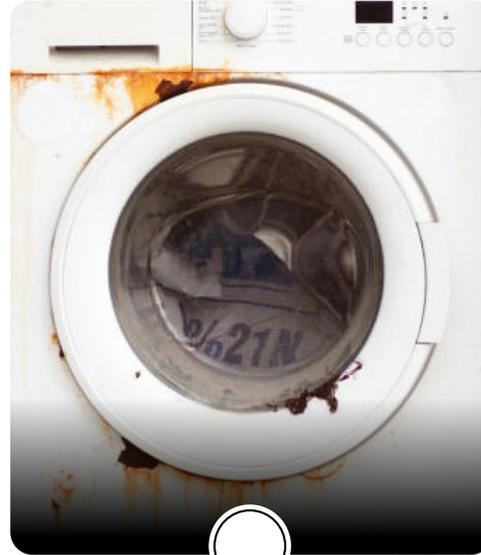
# Electrical Fires: Causes



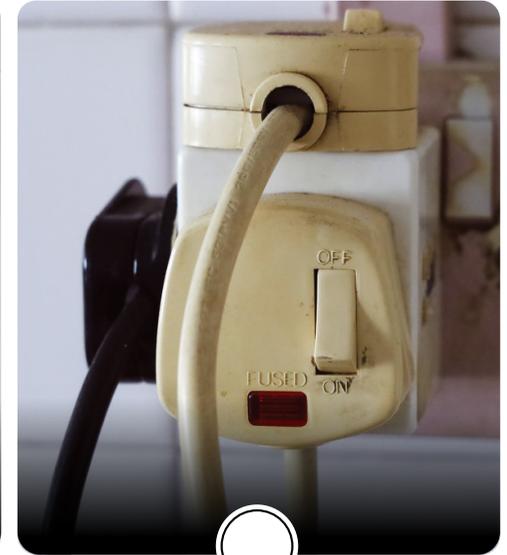
Sub-standard or cheaply made electrical goods.



Loose connections or components within a socket or device.



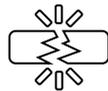
Old or worn electrical appliances.



Overloaded sockets and extension leads.



All electrical devices have conductors which can develop arc faults.

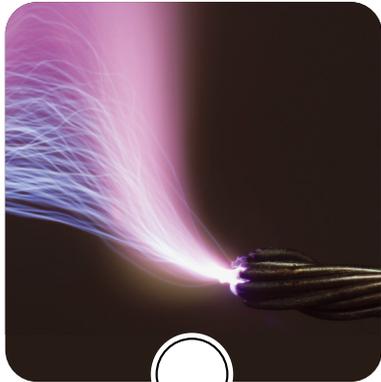


Aged components (plastics, connections) can fail and cause overheating.



Ci's technology can detect heat BEFORE a fire can start.

# Electrical Fires: How they start



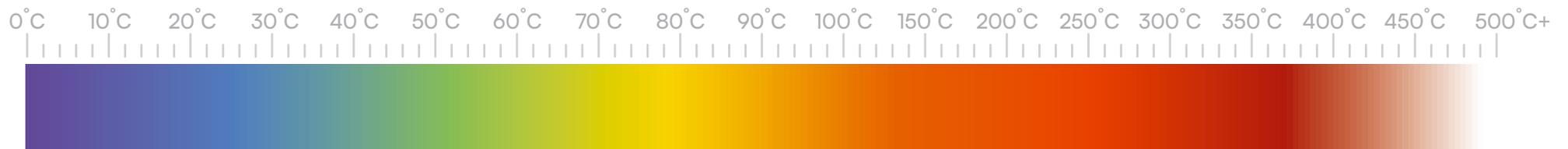
Loose connections in wires and inside devices cause arcing.



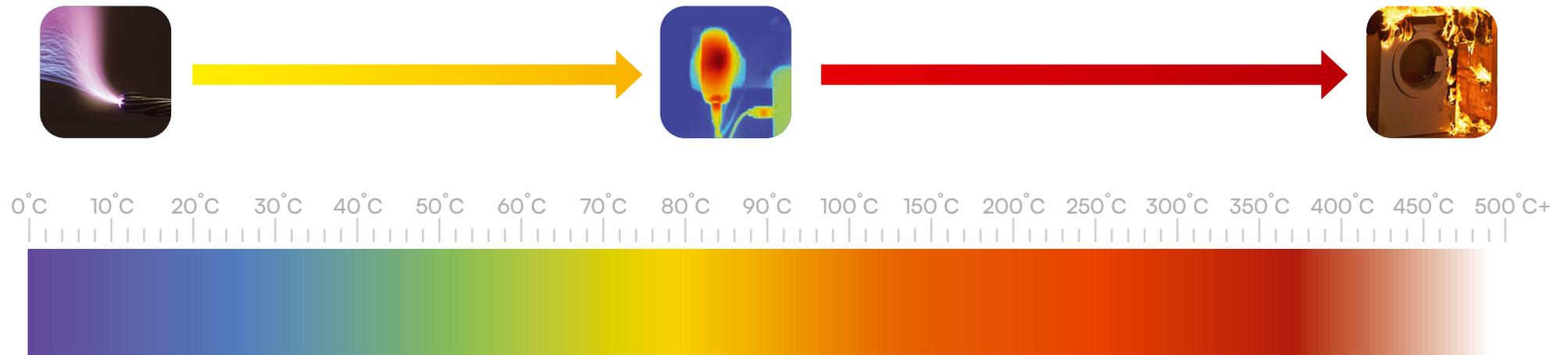
This creates heat. If undetected, the temperature rises, melting wiring and components within the device.



The heat builds sufficiently to ignite, and fire occurs.



# Electrical Fires: Prevention Window



**MULTI AWARD-WINNING PATENTED TECHNOLOGY**

**Ci ThermalVision** takes decisive action in three steps:



**DETECTS**



**PREVENTS**



**COMMUNICATES**

# Ci ThermalVision: Patented Fire Prevention Technology



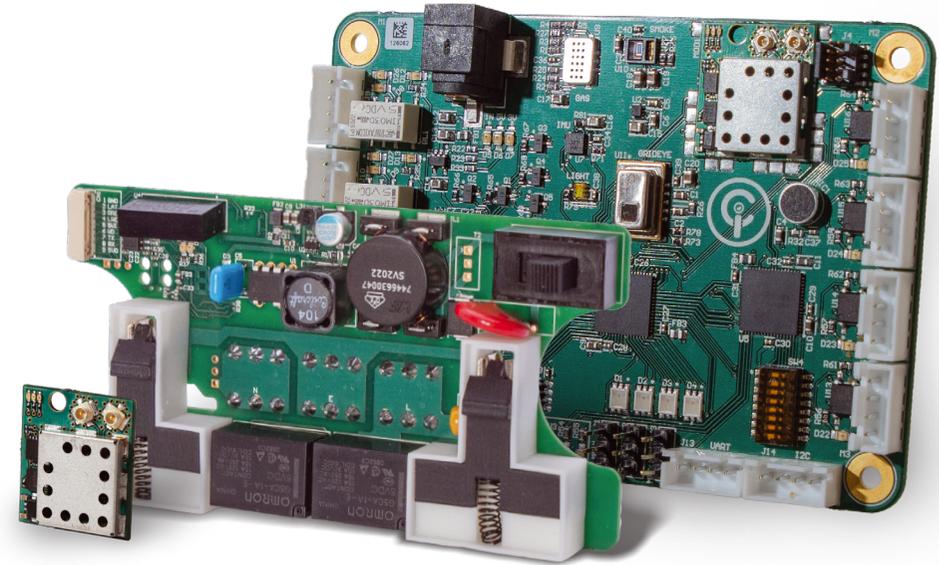
Thermal sensor technology monitors device performance.



Shuts off devices immediately if a set temperature threshold is reached.



Communicates to Cloud, owner, management, service providers and emergency services.



## OVERCURRENT PREVENTION



In any typical household you will inevitably find overloaded sockets and extension leads, simply due to the number of electrical items we use as a society. Many people do not realise that different appliances have different current ratings, so plugging certain appliances together into an extension lead can cause overload, which dramatically increases fire risk.

**Ci ThermalVision** will turn the device off before the maximum current load is surpassed.

# Sockets & Sensors



# Command & Control



# Ci Inside



# Ci Safe: Applications

**Ci Safe** and **Ci ThermalVision** are at the heart of everything we do. Our multi-award winning, patented technology is at the core of three primary applications, that offer market-defining fire prevention to homes, businesses and electrical appliances.

## Ci Sockets & Sensors

Purpose built Ci safe electrical devices created with Ci ThermalVision technology at their core. Featuring multiple threat sensors, notification LEDs, local alarm and third party alarm integration. Our devices are infinitely connectible with each other on a robust, unbreakable thread mesh network. Combined with connected utility shut-off valves and consumer unit to create a safe ecosystem.

## Command & Control

A pioneering fire protection and evacuation system, especially designed for medium & high-rise buildings. Combining the Ci safe ecosystem with evacuation aids and building management controls, to give first responders immediate access to critical information and the tools to manage life-threatening situations quickly and efficiently.

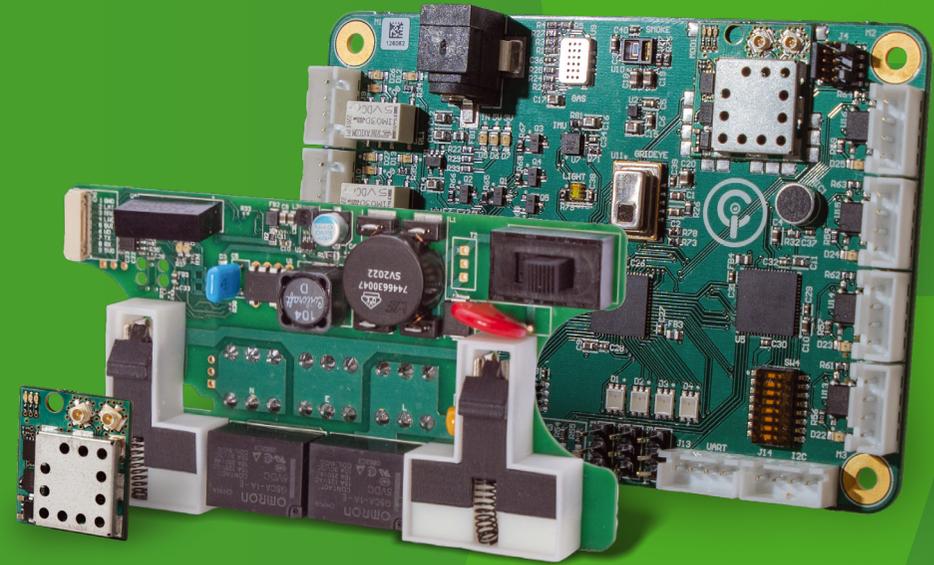
## Ci Inside

Ci ThermalVision technology built into our everyday white goods and electrical appliances. Combining fire protection to the consumer and data gathering 'Black Box' functionality to the manufacturer, and provides peace of mind at all stages of the product life-cycle.



# Ci ThermalVision

Fire prevention and energy management technology at the heart of multiple Ci applications.



## Multi award-winning, patented technology



Connected Innovations' entry was the judges unanimous choice of award winner. We believe the company has developed a product and system which could make a major contribution to reducing electrical fires and would be a significant safety protection measure if established in tower blocks. We developed this award to recognise businesses who put safety at the heart of their work, while incorporating sustainability and innovation, and Connected Innovations certainly ticked all the boxes.

Martyn Allen, Technical Director at Electrical Safety First



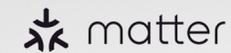
Proud members of



Fire Protection Association



# ONE



or



## Ci One

### Introducing the world's safest and smartest socket.

Featuring overcurrent protection as well as our life-saving ThermalVision technology for high temperature detection, the Ci One sets a new benchmark in global electrical fire safety.

The Ci One will detect current overload and any loose connection in the ring main. It also monitors all sockets and will cut off the power if it senses any potential danger, avoiding any risk to life or damage to property that might result from a fire.

In addition, the Ci One socket outlet also features advanced energy monitoring features that can contribute to carbon footprint reduction.

The Ci One is designed to use Matter technology, the latest global, open-source standard that aims to simplify smart home solutions. It allows internet-connected devices from different manufacturers to communicate simply and securely.

This gives the homeowner the opportunity to connect Ci One to any devices such as air-conditioning units, washing machines and automated curtain devices, which are compatible with Amazon Alexa, Google Home, Samsung SmartThings and Apple Homekit.

# Ci One: The safest and smartest socket in the world.

## Safety Driven

Market-first safety features that save lives and protect homes.



Fire-preventing thermal detection



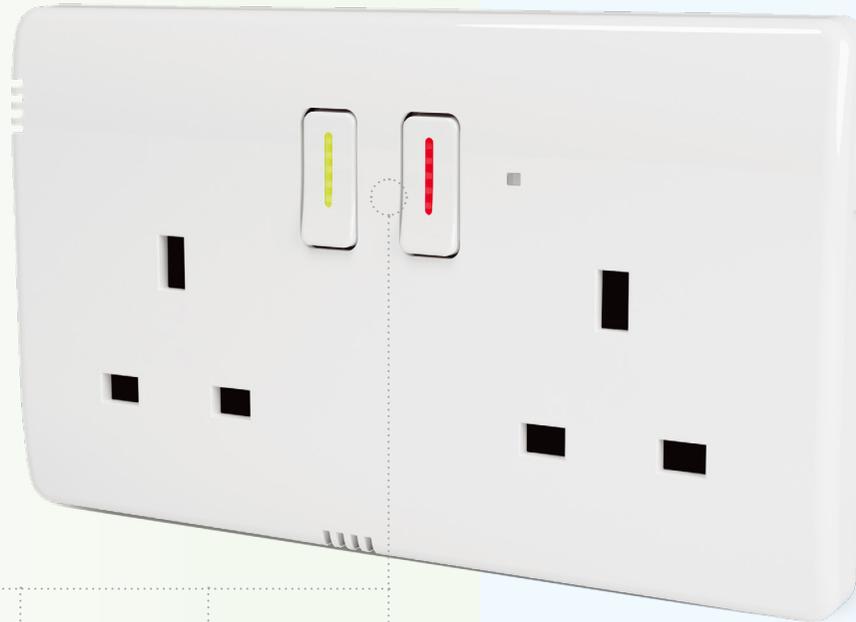
Arcing and ring main fault detection



Current overload detection



Alarm sounder



**Switched off**  
Constant white - Helps locate the switches in the dark.



**Normal operation**  
Constant green - Confirms power is on.



**Current overload detection**  
Flashing yellow - Local power switched off.



**Fire-preventing thermal detection**  
Flashing red - Local power switched off.



**Arcing and ring main fault detection**  
Flashing red/yellow - Local power switched off.



**Pairing/configuration**  
Flashing white - Bluetooth. User defined functions within the Ci Connect app.

## Smart Home Connectivity

Harness the power of Matter to create a robust, automated smart home solution that connects to any WiFi network.



Seamless smart home integration



Matter compatible



AI-powered automation



Connect and control any WiFi device over Matter



Room temperature & humidity sensor



Control and configure in the Ci Connect app

### WHAT IS MATTER?

Matter is the latest global, open-source standard that aims to simplify the smart home ecosystem by allowing internet-connected devices from different manufacturers to simply and securely communicate.



# Ci One: The future of safe, sustainable smart homes.

## Prevent Electrical Fires



Ci ThermalVision continually monitors temperature and cuts power before any potential fire.



Detect arcing and faults in the ring main.



Snap-in cable connectors eliminate loose connections, a key cause of electrical overheating.



Prevent sockets from being overloaded.



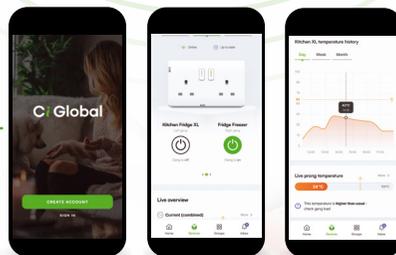
**Ci One**

## Create Smarter Homes



Connect to any WiFi device over Matter. Controlled through a single app.

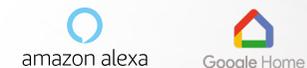
24/7/365 monitoring of individual sockets or plugged in devices.



AI-powered automation to optimise energy use throughout the home and save money on energy bills.

Configurable energy-saving scheduling programs.

## Manage Energy Use



MAX



Ci Max



# Ci Max: Maximum protection and flexibility

All the built-in features of the Ci One socket, with additional add-ons to customise Ci technology to suit the needs of any project. *Based on order volume.*

## Auto-dimming LEDs (configurable)



**Switched off**  
Constant white - Helps locate the switches in the dark.



**Normal operation**  
Constant green - Confirms power is on.



**Overcurrent detection**  
Flashing yellow - Local power switched off.



**Thermal overload detection**  
Flashing red - Local power switched off.



**Arcing or connection fault detection**  
Flashing red/yellow - Local power switched off.



**Fire + CO sounder detection**  
Flashing purple - Ci socket listens for third party alarms.



**Contactless water detection**  
Flashing blue - Used adjacent to washing machines & dishwashers.



**Gas detection**  
Flashing yellow/green - Gas supply switched off.



**Pairing/configuration**  
Flashing white - Bluetooth. User defined functions within the Ci Connect app.

## Additional add-ons:



Carbon monoxide sensor



Smoke sensor



Carbon dioxide/air quality sensor (future)



External sound analyser



Contactless water detection



Building vibration/earthquake detection



Natural gas/LPG sensor



Tamper detection/light sensor



Dual NFC detection



Hydrogen chloride gas sensor



Fingerprint control (future)

Ideal for use in large-scale residential and commercial properties.



Airports



Cultural centres



Emergency Service & Defence buildings



Factories



High/medium-rise buildings



Hospitals



Hotels



Industrial infrastructure



Schools



Service industry

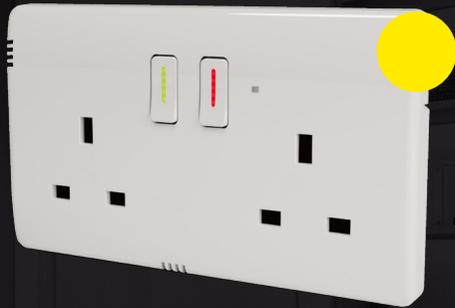


Shopping malls



All Ci sockets are certificated to BS1363 and SASO.

# Ci Max: Application variations



**General Purpose Domestic Socket**  
Yellow mark

**Included features:**

- Fire preventing thermal detection
- Current overload detection
- Internal/external temperature and humidity sensor
- Arcing and ring main fault detection
- Smoke sensor
- Carbon dioxide/air quality sensor (future)
- Carbon monoxide sensor
- Building vibration/earthquake detection
- Tamper detection/ light sensor
- Light level detection (auto-dimming LED switches)
- Dual NFC detection
- External sound analyser

**For use in general living areas:**

- Living room
- Bedrooms
- Study
- Hallways
- Conservatory



**Contactless Water Detection Domestic Socket**  
Blue mark  
+  
**Multi-function Water Sensor**

**Included features:**

- ALL FEATURES OF THE GENERAL PURPOSE DOMESTIC SOCKET
- Contactless water detection

**For use in:**

- Kitchen
- Utility room
- Bathroom
- Loft

**In proximity of:**

- Washing machine
- Dish washer
- Header tank



## Natural Gas/LPG Detection Domestic Socket

Green mark

Included features:

- ✓ ALL FEATURES OF THE GENERAL PURPOSE DOMESTIC SOCKET
- ✓ Natural gas/LPG sensor

For use in:



Kitchen



Utility room



Living room



Boiler



Gas cooker



Open log fire

In proximity of:

## Hydrogen Chloride Gas Detection Industrial Socket

Red mark

Included features:

- ✓ ALL FEATURES OF THE GENERAL PURPOSE DOMESTIC SOCKET
- ✓ HCl Hydrogen chloride gas sensor

For use in (but not limited to):



Data centres



Switch rooms



Lift shafts



Riser cupboards

# Ci Max: What makes it unique?



## ASSET TRACKING

Track what is plugged in, where and for how long - across your entire network of Ci sockets



## CURRENT OVERLOAD PREVENTION

Prevent socket overloading by letting you set a custom ampage limit.



## FIRE-PREVENTING THERMAL DETECTION

Detects heat build-up inside the plug of any connected device and shuts it down before it becomes a fire risk.



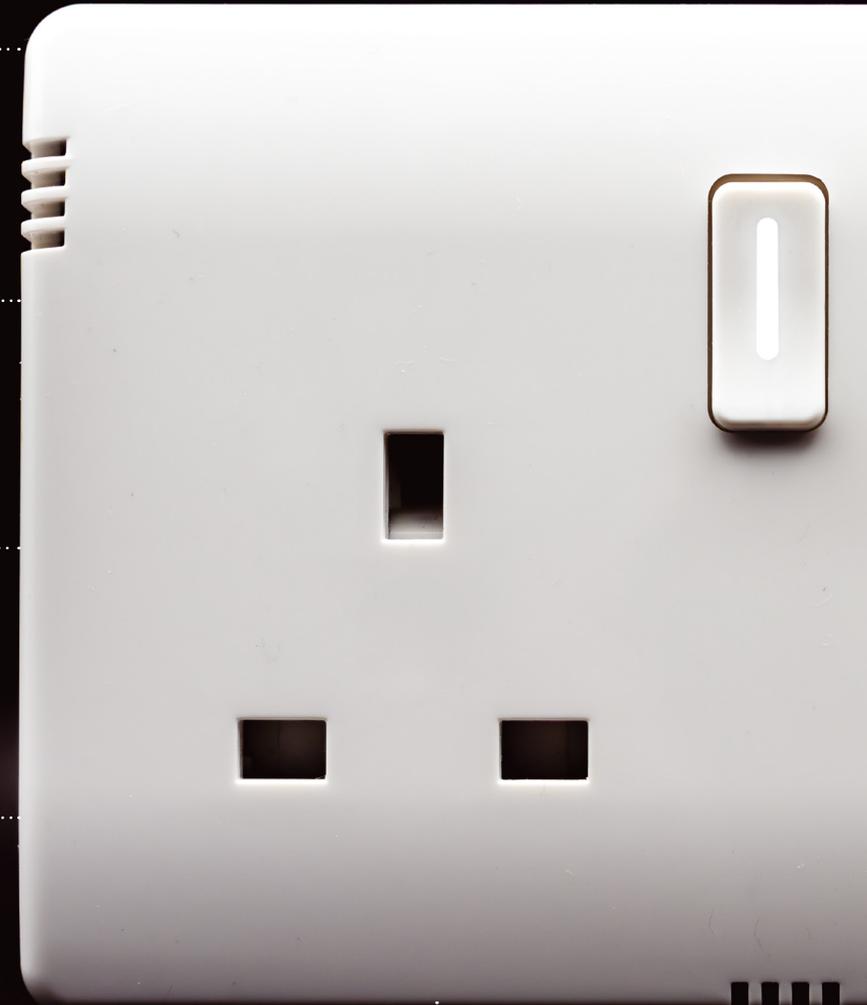
## TAMPER PROTECTION

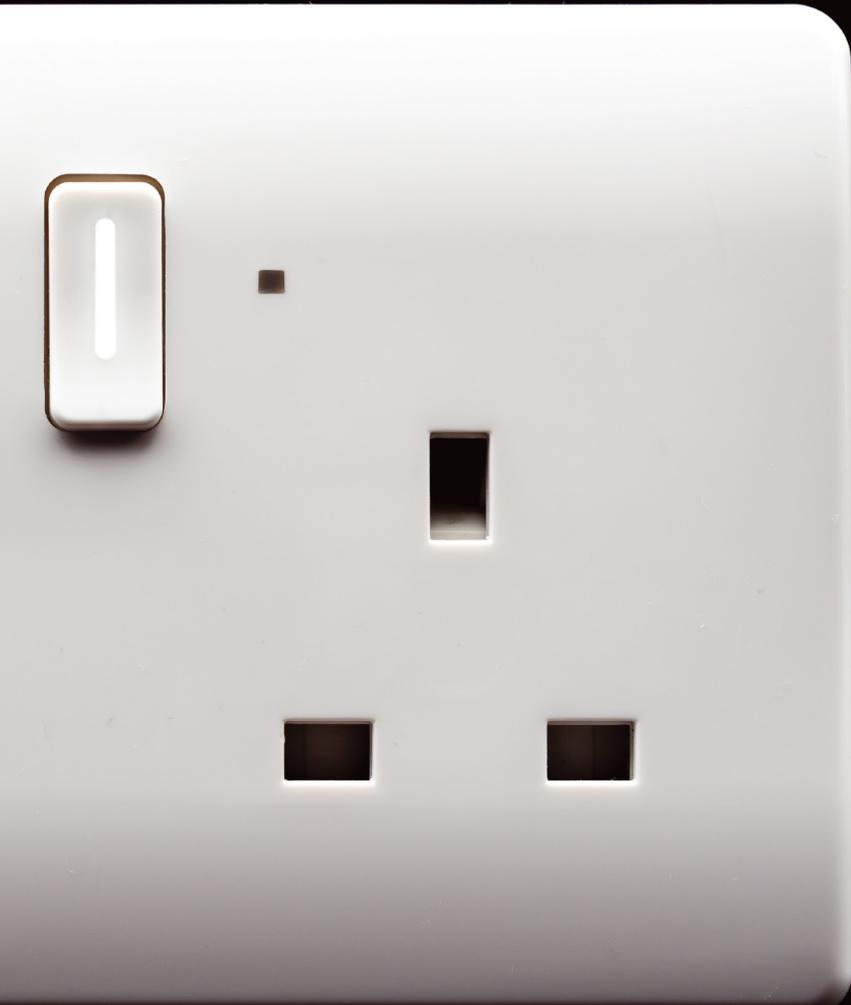
Receive a notification if the Ci device is tampered with.



## SOUND ANALYSER

Detects critical incident sounds like smoke and CO alarms or breaking glass, whilst ensuring privacy with real-time, non-intrusive audio analysis.





● **ENERGY MANAGEMENT** 

See where your power's going. Use AI to monitor usage, spot the biggest energy drains, and cut waste by powering down standby devices.

● **PAT TEST MONITORING** 

Keeps you compliant. Blocks power to any socket that's overdue its PAT test, reducing risk and liability.

● **NFC 'PAY AS YOU GO' ELECTRICITY** 

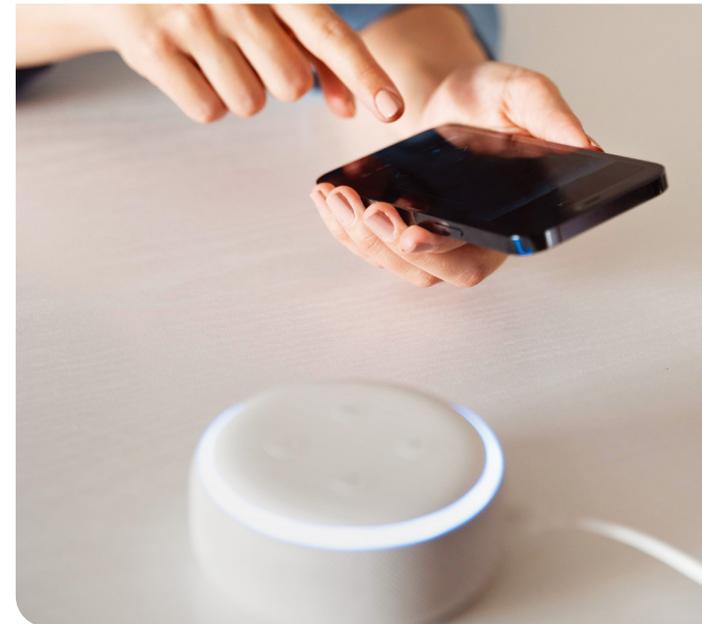
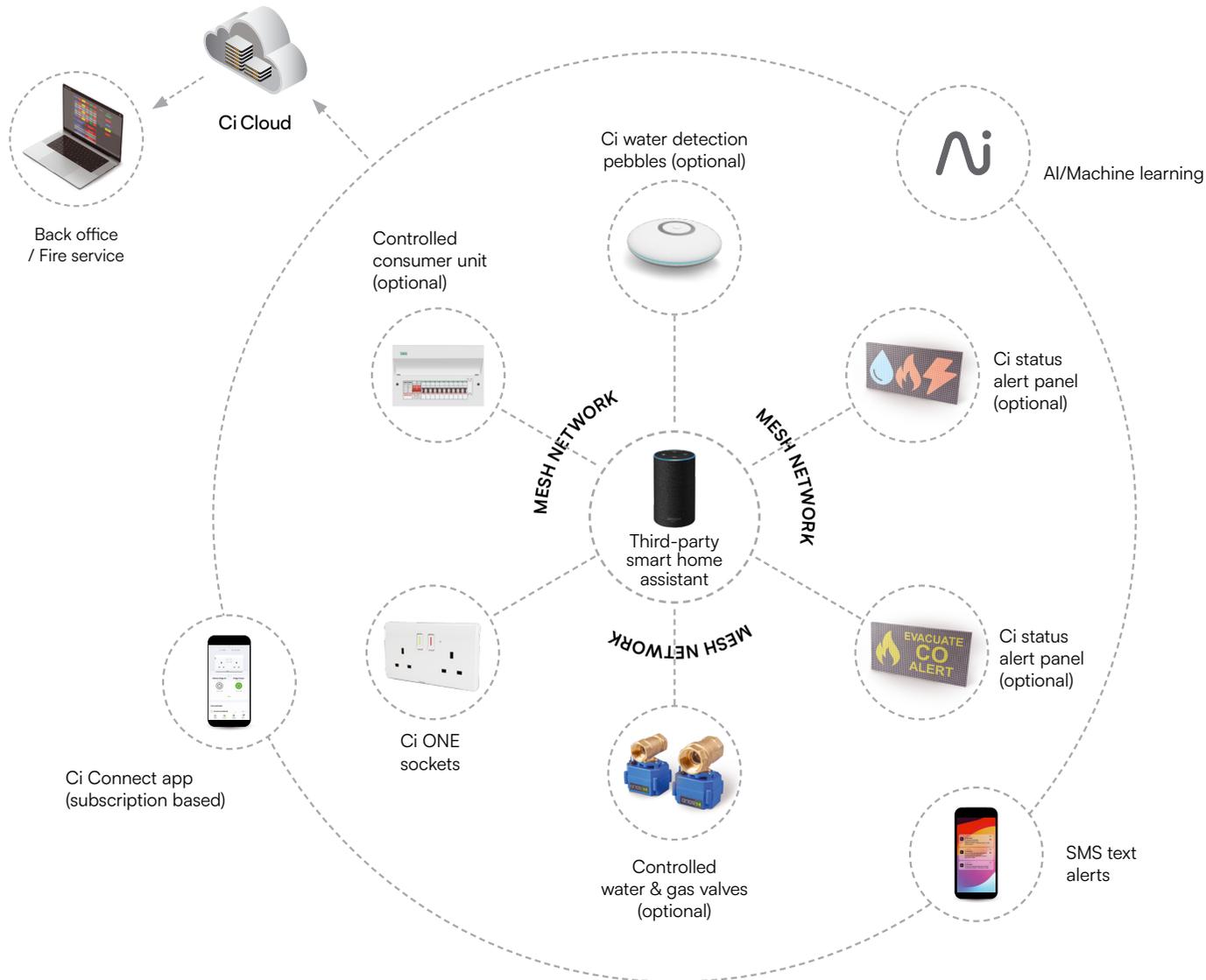
Ideal for shared or public spaces. NFC payment activation gives you secure, on-demand control over who can access power - and when.

● **TEMPERATURE & HUMIDITY MONITORING** 

Prevents the unseen. Detects conditions where damp and mould could grow - long before they become a problem.

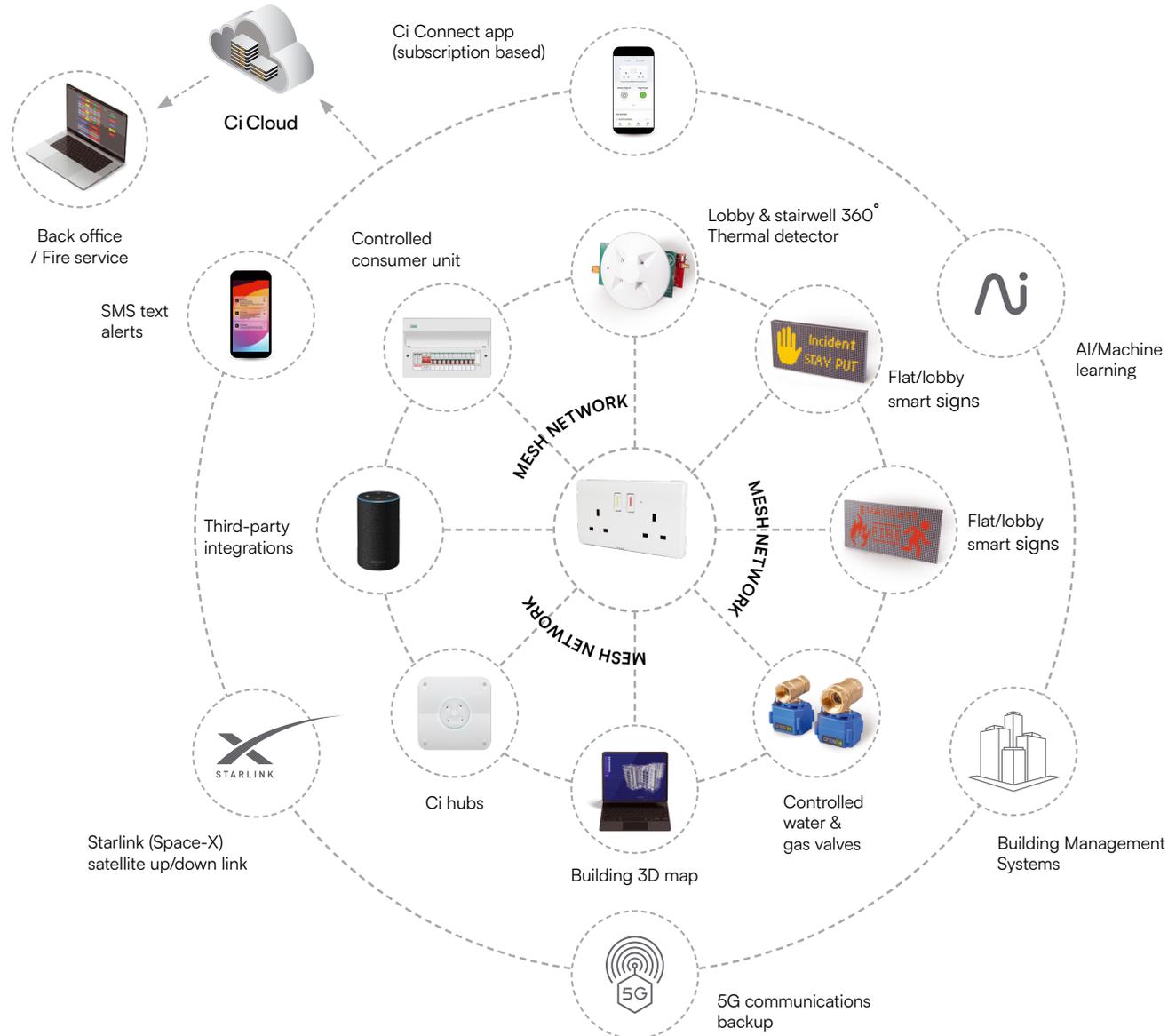
# Ci One: Radio Mesh Configuration

The electrical fire prevention and smart home connectivity of Ci One and Ci connected devices for a safer and smarter home, built around our existing OpenThread network.



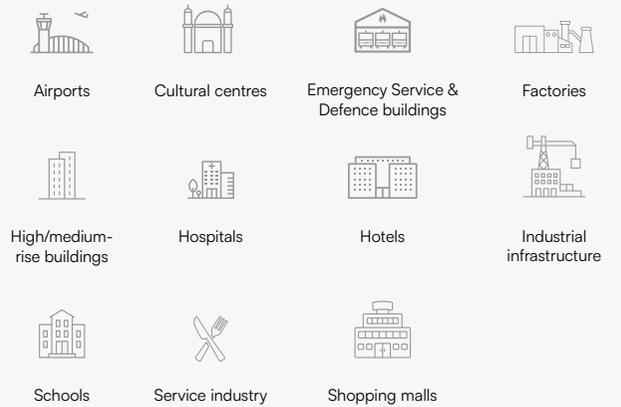
# Ci Max: Radio Mesh Configuration

A self-healing, resilient radio mesh network, that connects Ci devices and services, for maximum protection and connectivity.

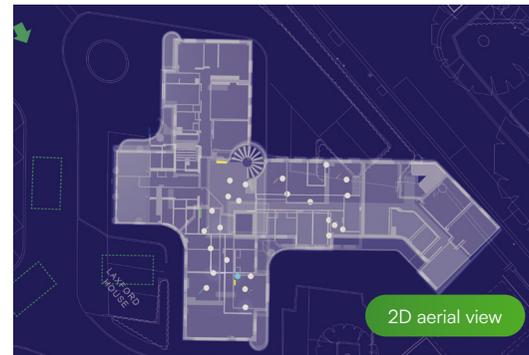
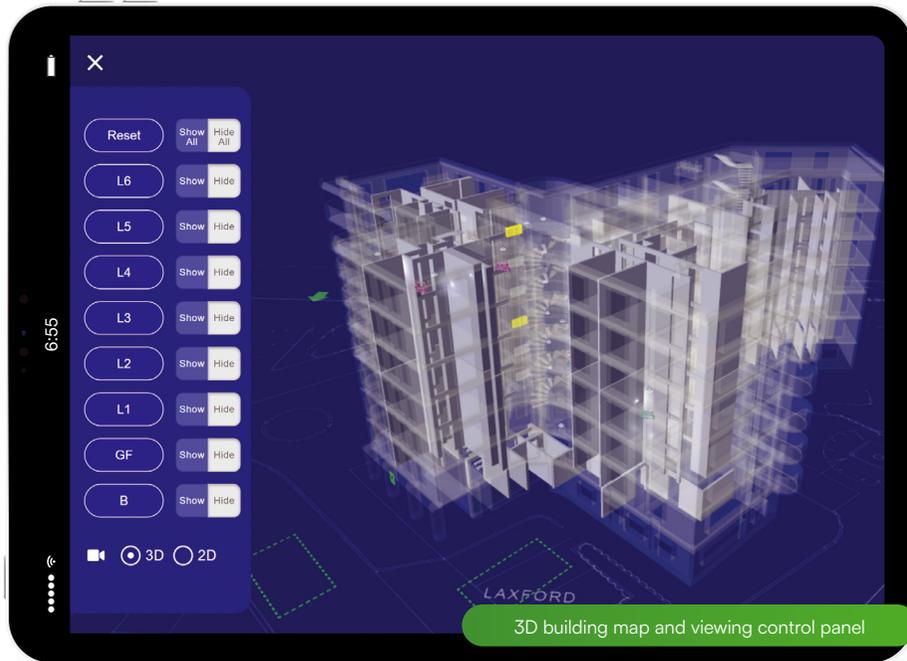


## Ci Safemap

The Ci radio mesh network is at the heart of Ci Safemap, the scalable fire prevention and evacuation solution for medium-rise, high-rise and commercial properties.



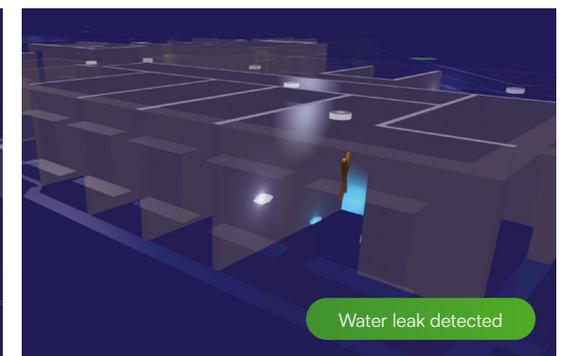
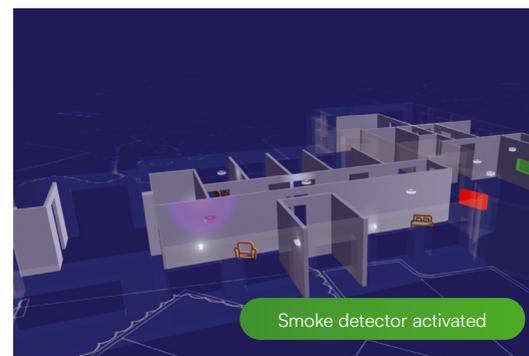
# Ci Safemap: Real-time 3D mapping



The Ci Safemap system includes a custom built, interactive 3D model of the building that can be used by first responders or responsible authorities to see exactly where a threat has been detected within the Ci Safemap installed building, giving them ongoing real-time information and crucial insights before arriving on the scene.

#### Features include:

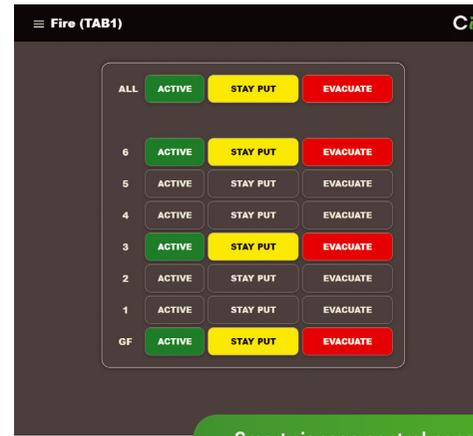
- Gesture sensitive controls to zoom, pan and orbit the 3D model.
- Ability to isolate floors to get a better view of the floorplan.
- Locations of all installed Ci sockets, detectors, smart signage and alarms within the building.
- Real-time visual representation of activated alarms.
- Voice alerts.
- Switch between 3D and 2D views.
- Additional information markers such as the building's PEEP box, fire exits, wayfinders and suitable parking spaces for emergency services.



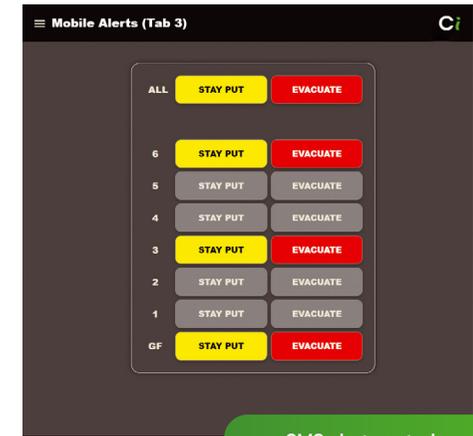
# Ci Safemap: Life-saving utility controls



**Utility control panel.**  
Individual and global shut-off and alert controls for water, gas and electrical power.



**Smart signage control panel**



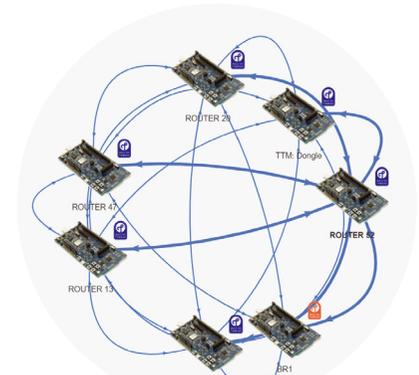
**SMS alert controls**

Ci control dashboards give building management and first responders the ability to turn the building's utilities on and off (at a flat, floor or building level), as well as being able to control the smart signage within the building, and send SMS alerts directly to occupants telling them to either 'Stay Put' or 'Evacuate'.

This combination allows for clear, fast communication and decision making in time-sensitive, high-pressure situations.

Connection is maintained through Ci's powerful, resilient thread mesh network, which allows any device to take over as the main router, should another become compromised.

Ci Safemap is an ideal solution for both preventing and reacting to fire outbreaks in medium and high-rise buildings. We envisage it becoming a safety standard in every major metropolitan city around the globe, and a key part of residential and commercial building infrastructure, as we move into the future.



**Ci Radio Mesh Network**



**Flat management dashboard**  
with socket and matrix sign controls.



# Firefighter Product Development

In addition to the current portfolio of planned products, Ci will continue to investigate innovative and complementary technologies, which can be integrated into the Ci product family.

## PATHFINDER LASER

### Directional guidance system

A guiding light in the toughest situations. Projects clear visual indicators to mark safe and hazardous paths through smoke and fire-filled environments.



## REMOTE VIEW

### Augmented Reality (AR) headset displays for first responders

Harnessing the power of AppleVision Pro headsets and Unity 3D to place fire fighters remotely inside buildings, in real-time, to take control of serious incidents and evacuations.



## Ci DRONE

### Live rooftop inspection at the speed of emergency.

Ci Drone is a rooftop-mounted, semi-autonomous inspection drone that activates the moment danger is detected — giving fire crews and emergency responders a live 4K video aerial view of the situation within seconds. No guesswork. No delay.

#### Key features:

- Autonomous take-off triggered by emergency detection
- Rooftop-mounted, weather-resistant dock with continuous charging
- Integrated with Ci SafeMap and RemoteView headsets
- 4K video streaming with thermal and night vision
- High-powered LED floodlight for low-visibility or night-time operation
- Two-way audio: listen in or communicate with responders or those trapped

# Ci Sense: Product range

The safest & smartest extension lead & plug-in adaptor in the world.

## Ci Safe Extension Lead

Intelligent current overload protection with total accumulative current display.  
Available in 3 or 4 gang and with USB-A and USB-C combinations.



### Included features:

- Fire preventing thermal detection
- Arcing and ring main fault detection
- Internal/external temperature and humidity sensor
- Light level detection (auto-dimming LED switches)
- Individual power consumption monitoring
- Water detection
- Total accumulative current display
- External sound analyser
- Surge Protection
- Alarm Sounder
- RGB LED Status
- Control and configure from the Ci Connect app

Ci extension leads and plug-in adaptors are Matter compatible (WiFi), with in-built 4G/5G modem for remote control & monitoring, and Ci radio mesh network connectivity.

Ci extension leads and plug-in adaptors are certificated to BS1363 and SASO.

## Ci Multi-function Sensor

Water and thermal detection.



### Included features:

- Water detection
- Internal/external temperature and humidity sensor
- Fire preventing thermal detection
- Positioning sensor
- Alarm Sounder
- RGB LED Status

## Ci Safe Plug-in Adaptor

For protecting devices whilst on the move.

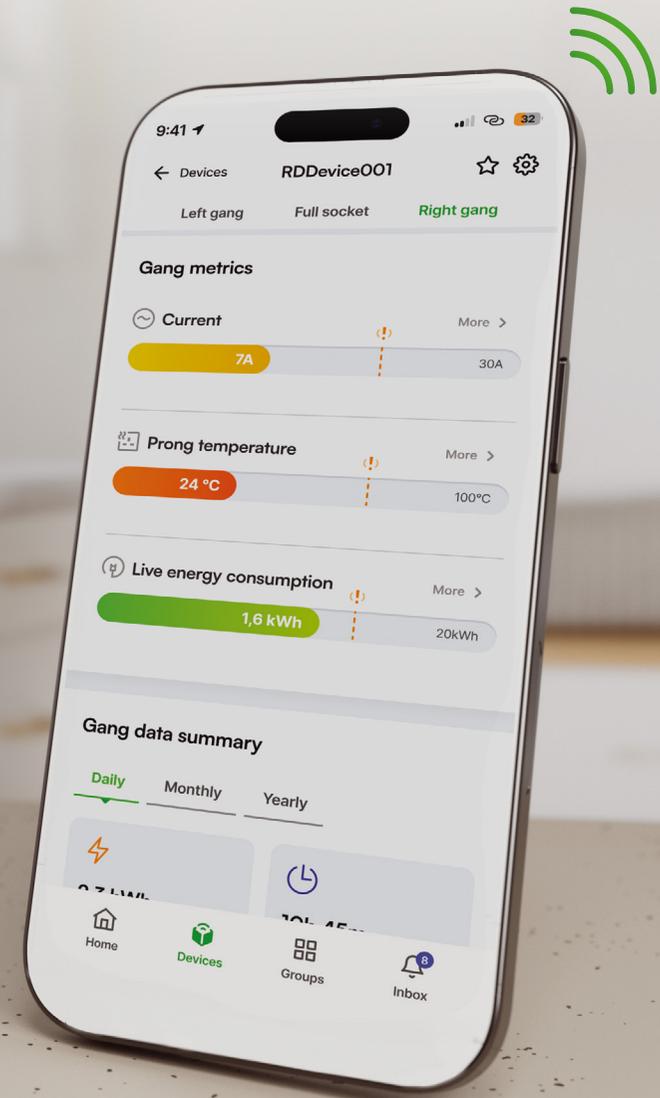


### Included features:

- Fire preventing thermal detection
- Arcing and ring main fault detection
- Carbon dioxide/air quality sensor
- Light level detection (auto-dimming LED switches)
- Current overload detection
- Smoke sensor
- Natural gas/LPG sensor
- Carbon monoxide sensor
- NFC detection
- Internal/external temperature and humidity sensor
- External sound analyser
- Control and configure from the Ci Connect app

# Smart Energy Management

Tackle energy demand and reduce carbon footprints with Ai-powered, smart energy consumption data and controls.



 Powered

 Smart Home compatible



24/7/365 monitoring of individual socket or device power usage.  
Turns every device into a smart meter!



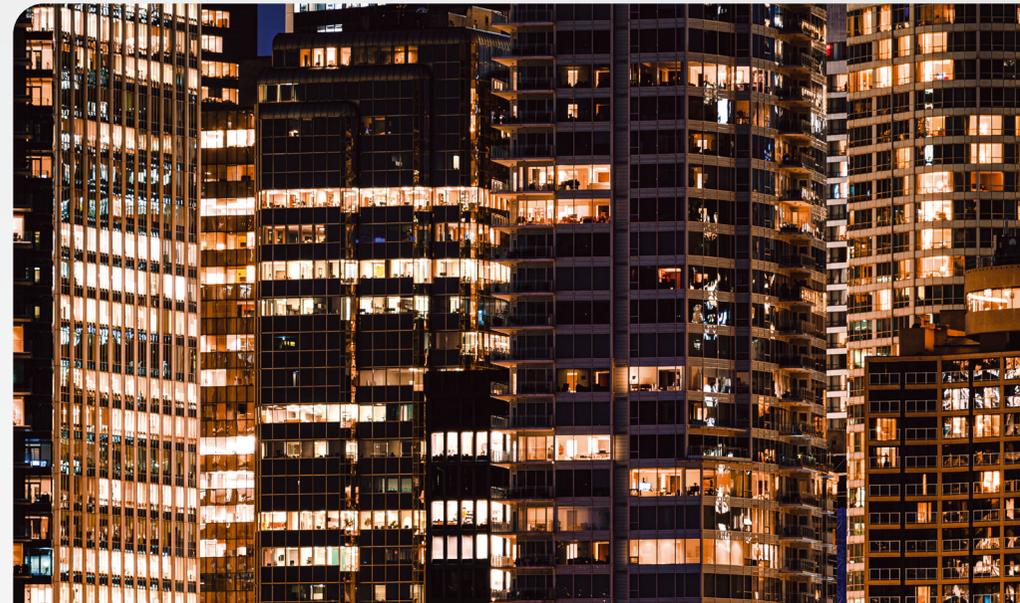
Identifies devices drawing large or abnormal amounts of electricity.



Manage device operation manually or automatically through use of the Ci Connect app.



AI learning makes assumptions based on behaviour over time, offering money saving recommendations to the user.

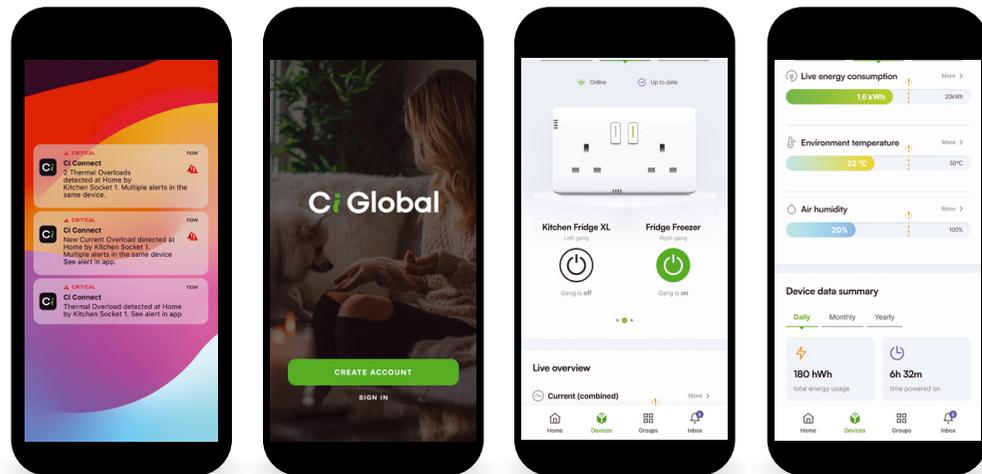


# Ci Connect: Save money. Protect the planet.

As energy bills sky-rocket and we aim for a carbon net-zero future, it is important for households and businesses to have control over their energy consumption in order to keep costs and usage to a minimum. Optimising energy use is fast-becoming one of the most talked about issues facing the everyday consumer with modern-day smart meters only showing overall energy use, without offering any insights into what is using the most electricity, and why.

**Ci ThermalVision** gathers power usage data on every socket or appliance and reports it directly to the Ci Connect app, essentially turning each one into a smart meter, providing detailed information about which devices are drawing the most power and whether there are any issues related to how efficiently they are running.

Through the power of the Ci Connect app, consumers can make decisions on how best to manage their energy consumption right down to the individual appliance or socket, and either manually turn these on and off, use built-in 'Eco' and 'Night' modes, or create routines and schedules to avoid unnecessary energy wastage. Users can also take advantage of AI learning to receive recommendations based on everyday usage over time.



## Proposed Features include:

- View system status.
- Manage all devices from the app.
- Organise devices into groups.
- One-touch 'Eco' and 'Night' modes.
- Create multiple locations within a single account.
- Turn sockets on/off.
- Receive alerts, notifications and recommendations.
- Detailed reporting.
- Set routines and schedules.
- Customise user defined functions.
- Landlord specific add-ons.
- Accessibility features.

# Pay-as-you-go Electricity / Wi-Fi

## Ci SOCKETS PREVENT ELECTRICAL FIRES WHILE GENERATING INCOME.

Cafés, airports, and other public spaces can offer pay-as-you-go electricity and Wi-Fi — creating a recurring revenue stream and giving owners secure, on-demand control over who can access power and when.



### TAP AND GO

Customers pick their minutes, tap their smartphone on the Ci Socket's built-in NFC chip readable by Apple Pay or Google Pay.



### PAY ONLY FOR WHAT YOU USE

Charges are based on consumption, with rates set by the facility owner — the more power, Wi-Fi, or devices, the higher the cost.



### SEAMLESS APP INTEGRATION

An open API allows the Ci app to be embedded into third-party customer apps for smooth, branded experiences.



### CONSUMER PRE-PAID TOKEN CARDS

These can be issued as an alternative to smartphone payment and loaded on-line to allow access without using an app.



### BUSINESS TOKEN CARDS

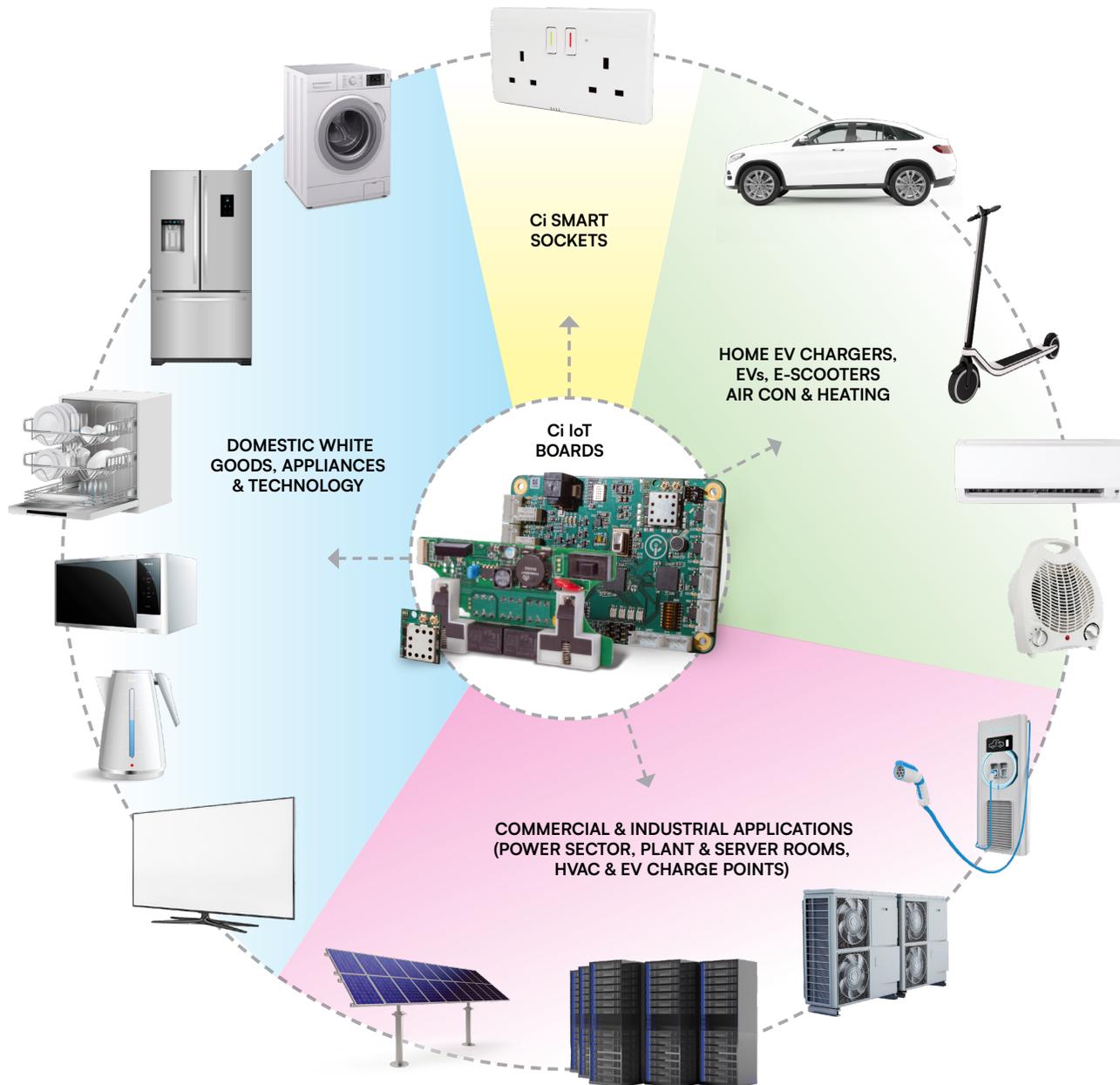
Companies can issue staff such as cleaners and maintenance teams with token cards that grant access to Ci Sockets — with the option to track appliances in real-time and monitor their usage.



### FREE QUICK CHARGE TO PAY

If a phone battery is flat, the Ci Socket gives just enough power to switch it back on so the customer can complete payment and continue charging.

# Ci Safe: Built-in fire prevention



The electrical and mechanical components within appliances can both catch fire as well as the contents (food and clothing being the most common appliance loads to catch fire).

High-profile appliance recalls by manufacturers are all too common, yet the problem persists.

We believe in a better way; appliances do **NOT** spontaneously combust — fires happen because heat builds up over time. We spot this thermal overload and turn off the hazard before it can catch fire.

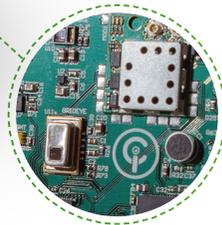
**We STOP the threat at source.**

- Monitors early stage indicators of thermal overload inside the appliance.
- Environmental sensors to monitor temperature/humidity and air quality.
- Additional protection against smoke, gas, current overload and water leaks.
- 4G/5G and other communication methods.
- Internal shut-down of motors and compressors.
- Sounds alarm locally and via the Ci Connect app.
- Monitors power usage per appliance.

# Ci Safe: Data gathering capabilities



UK patent granted, global patents pending.



## MANUFACTURER INTEGRATION

Working alongside manufacturers, technical data for specific products can be uploaded to the Ci Cloud to automatically set threshold parameters for particular models.

Detailed reporting of product behaviour and patterns can help diagnose any possible issues.

**Ci Safe** electrical appliances, protected by Ci ThermalVision are routinely monitored to make sure they are working correctly and not developing any faults which could lead to malfunction or cause an electrical fire.

Sensors monitor the integral components of the appliance, checking the internal and ambient temperatures, electrical current load and air quality, constantly gather insightful data about how the appliance is running.

This data is wirelessly communicated to the Ci Cloud and can provide benefits to manufacturers, in the form of reporting and accountability.



## 'BLACK BOX'

reporting for manufacturers



Monitor components prone to overheat 24/7/365.



Transmit heat profiles by means of wireless communication to Ci Cloud and physical or virtual remote devices.



Analysis and action taken including whole or partial appliance shutdown and local alert.



Gathered data available to manufacturers for further analysis, warranties, accountability and, if necessary, product recall.

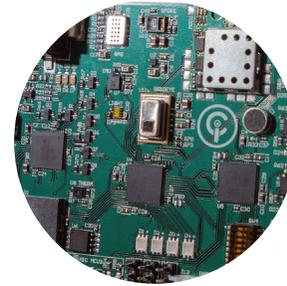
# Ci Safe: Remote sensor

## ThermalVision protection for large-scale infrastructure

Ci Safe is a compact, industrial-grade unit designed to monitor environmental and electrical risks across high-stakes environments - from plant rooms and substations to HVAC systems, EV charging points, power plants, solar installations, data centres, and even large-scale industrial sites like airports and logistics hubs.

Using Ci's advanced ThermalVision technology, it continuously monitors the temperature and behaviour of complex electrical systems - detecting early signs of faults, overheating, gas leaks, smoke, vibration, tampering, and more. With optional automated shutdown, it can isolate and neutralise threats before they escalate.

Always on, always alert - **Ci Safe is the silent guardian for critical infrastructure.** It monitors in the background, detects danger early, and acts before problems escalate. It's protection you don't have to think about - but can always count on.



### Included features:



Fire preventing thermal detection



Current overload detection



Internal/external temperature and humidity sensor



Arcing detection



Smoke sensor



External sound analyser



Natural gas/LPG sensor



Building vibration/earthquake detection



Tamper detection/ light sensor



# Commercial Applications: Ci Safe



## White Goods Manufacturers



55% of all house fires were caused by white goods appliances, between 2011 & 2014.

(Source: which.co.uk)



Ci SAFE managed product recalls.



Ci SAFE product warranty registration.



## Power Sector



The UK has announced £20bn investment into technology to reduce Britain's carbon emissions.

(Source: theguardian.com)



£210m invested in Small Module Reactors (SMR) nuclear power stations, with Rolls Royce.



Offshore wind farm sites such as Hornsea 3 aim to have global EBI (Energy Balance Infrastructure) / BESS (Battery Energy Storage Systems) onshore locations.



## EV Market

(INCLUDING EV CHARGING STATIONS)



BP has invested £1billion in EV charging infrastructure over ten years.

(Source: bp.com)



UK Government invest £1.6bn in the EV Charging network.

(Source: edie.net)



In the US in 2021, EV charging was valued at \$6.8bn, expected to reach \$20bn by 2025.

(Source: vfsfire.com)



## Distribution & Data Centres



New build depots/distribution centres integrate Ci Safe into plant rooms and other critical areas.



Existing depots to complement current fire/gas & water detection systems.



Notable fires at Ocado, Morrisons and Primark distribution centres.

# Commercial Applications: Ci Sockets & Ci Safemap



## Residential Property



2,685 fires in the twelve months up to March 2022 in buildings over 3 storeys high.

(Source: gov.uk)



Implement Ci Safemap into private and social MRRB & HRRBs.



Work with property developers to create Ci protected residencies and developments.



## Licensing



Licence Ci ThermalVision technology to plug socket manufacturers.



Ci patented technology gives competitive edge to larger manufacturer brands.



Increasing technological adoption and need for energy-saving solutions driving market growth of domestic IoT smart devices.



## Commercial Property



8,942 primary fires in non-dwelling buildings in 2020.

(Source: data.gov.uk)



Implement Ci Safemap into industrial & retail premises, hotels, schools, hospitals and offices.



“Whole Building” Fire Protection will enhance marketability for developers.



## Geographical Markets



**GULF COOPERATION COUNCIL**  
(United Arab Emirates, Saudi Arabia, Qatar, Bahrain, Kuwait, Oman)

UNITED KINGDOM

**EUROPEAN UNION**  
(All member states)

# Commercial Applications: Insurance



## Water Damage



29% of all UK insurance claims are for Escape of Water.

(Source: morganclark.co.uk)



£1.8 million paid out by UK insurers per day.

(Source: morganclark.co.uk)



Insurer Legal & General revealed water damage claims over a two and a half year period totalled £81 million.

(Source: insurancebusinessmag.com)



## Fire Damage



17% of all UK insurance claims are for Fire & Explosion.

(Source: morganclark.co.uk)



£1.3 billion was paid to customers in 2018.

(Source: abi.org.uk)



70% of fire damage claims are related to commercial properties.

(Source: blog.addresscloud.com)



## Insurer Trends



Insurer demands influence legislative and building regulation change.



Insurers keen to actively partner with tech companies or risk losing competitive advantage.

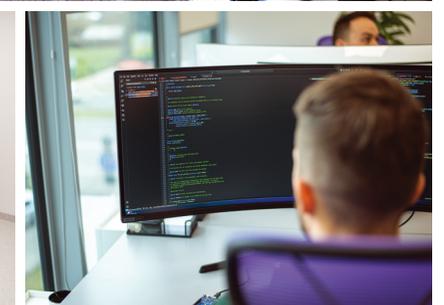
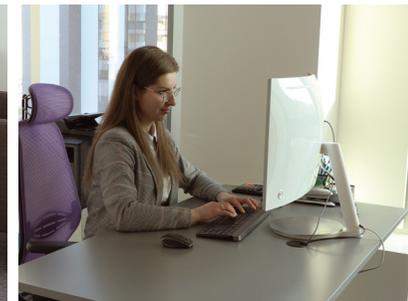


Insurers use IoT data to better determine rates, mitigate risk and prevent losses.

# Ci R&D HQ

Occupying two floors of the Skyres building in Rzeszów, Poland, the Ci Global Research and Development office is the home of our Hardware and Software teams, and the beating heart of Ci's technical development. With multiple, fully serviced office spaces, board & meeting rooms, and two design and testing laboratories, Ci has created the perfect environment to manage ongoing operations and nurture future innovations in line with our initiative and business goals.

Headed by CTO Piotr Supinski and Chief Hardware Officer Michal Poterek, the teams consist of highly-talented and motivated individuals, working across the full spectrum of software and hardware disciplines. From Full Stack, iOS, Android and Azure Cloud developers, to Hardware Designers and Firmware Engineers, with experience working for the likes of Microsoft and Amazon, the Ci R&D team reflects our passion and commitment to being at the forefront of technology innovation within the electrical safety sector.



# Ci Manufacturing

Ci is working with forward-thinking manufacturing partners who share our passion and dedication to producing top-quality, reliable and sustainability-conscious technologies for the global market. Conveniently located close to our R&D department in Poland, these partnerships allow for seamless collaboration and innovation between our respective teams.



## Electronics / PCBs / Testing / Assembly

Founded in 1991, Fideltronik has grown to become a significant player in the Polish electronics industry and has expanded its operations globally.

The company is certified to ISO 9001 and ISO 14001 standards, ensuring that its operations meet the highest international quality and environmental management standards.



## Plastics / Injection Moulding / Testing / Assembly

With over 40 years' experience, KLS produce and supply technical plastic parts for a range of industries including electronics, electromechanical, energy and automotive.

All parts are stringently tested through a precision quality control procedure and KLS are focused on using eco-friendly methods and renewable plastics, for a more sustainable future.

# Founder & Leadership Team



**Anthony D Parfitt**  
CHAIRMAN & CEO (FOUNDER)



**Piotr Supinski**  
CHIEF TECHNICAL OFFICER



**Michal Poterek**  
CHIEF HARDWARE OFFICER



**Lech Biernacki**  
CHIEF INFORMATION OFFICER



**Alex Kilby**  
CHIEF CREATIVE OFFICER

# Advisory Board



**Howard Doberman**  
ADVISOR TO THE BOARD

**Deloitte.**



**Michelle Thompson**  
ADVISOR TO THE BOARD

 **BALLY** *Fenwick*



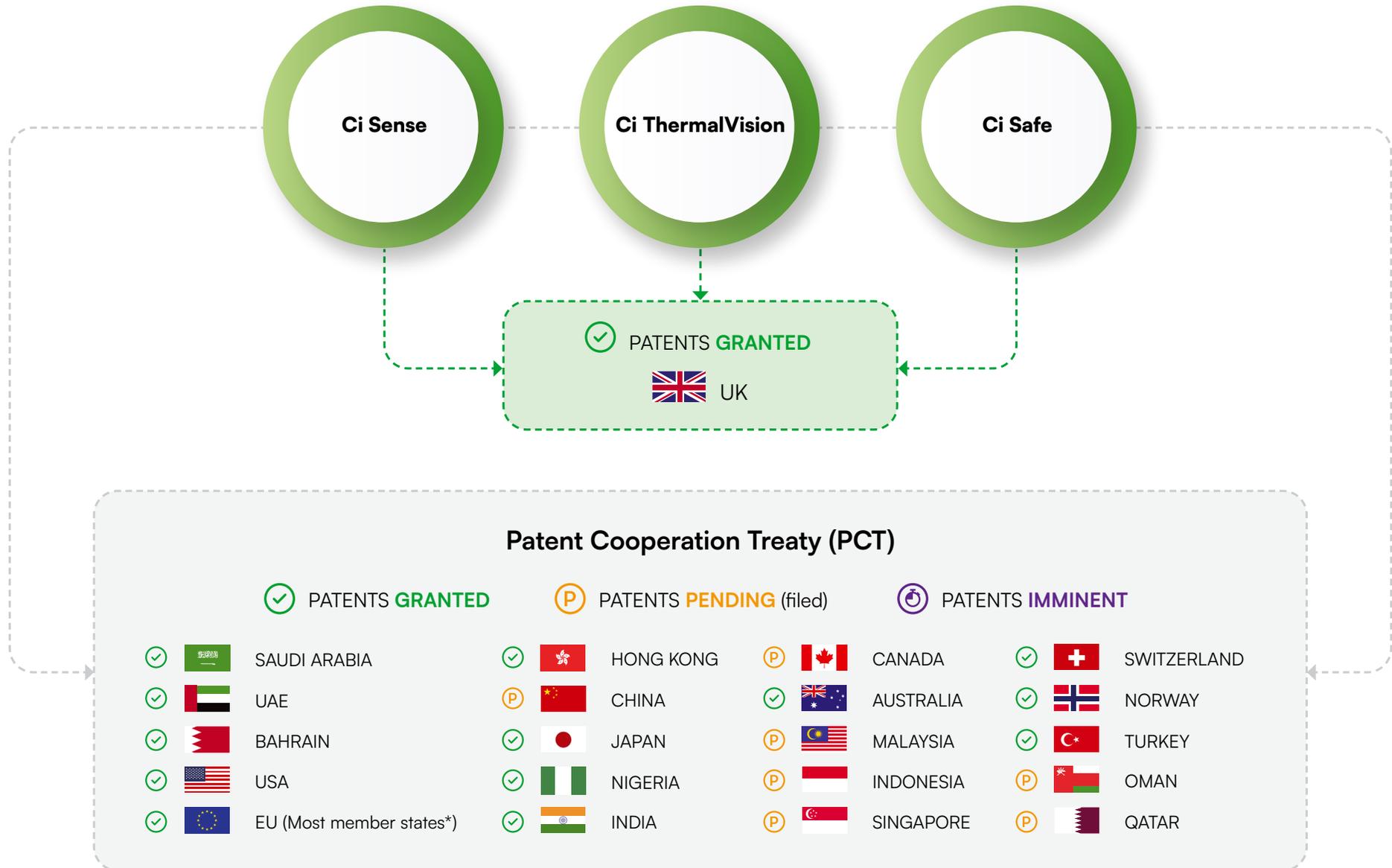
**Jason Brown**  
ADVISOR TO THE BOARD



**Chris Adkins**  
ADVISOR TO THE BOARD



# Our Patents: UK & Worldwide



\*Member States of the European Patent Convention which also includes the United Kingdom.

# Our Industry Leaders & Advisors



A leading global provider of audit and assurance, consulting, financial advisory, risk advisory, tax, and related services.



A top ranked UK and international law firm.



One of Europe's leading patent attorneys firms.



Globally recognised Quality Assurance company.



One of the largest insurance groups in the world managing premiums on behalf of millions of clients spanning 100 countries.



UK charity working with all sectors of the electrical industry as well as local and central government to reduce deaths and injuries caused by electrical accidents.



British Standards Institution. Standards, training, testing, assessment and certification.



Fire Protection Association.

# Ci Global Locations

Active

Proposed

Partner



It was a great honour to win the ESF award for innovation. It's validation for all our hard work as we change the landscape of fire safety.

- Anthony D Parfitt  
CHAIRMAN & CEO (FOUNDER)



# Ci Global

Innovations for a safer world

Please contact us if you are interested in working with Ci Global.

Our aim is to pioneer a new approach towards electrical fire safety awareness.



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Fire Protection Association