



# CAVIUS

THE WORLD'S SMALLEST SMOKE ALARMS

DANISH  
DESIGN



## ON POINT DISTRIBUTION PARTNERS LTD

On Point Distribution Partners Ltd have been distributing fire safety products in NZ & Australia since 2008 and are home to the CAVIUS and Watchman smoke alarms. Our products are ranged in over 600 resellers nationwide. Based in Papamoa, Bay of Plenty - we are 100% NZ owned and operated.

We are proud to be involved in the concept, development and launch of the world's smallest smoke alarms, CAVIUS, not just in NZ but across the world.

## THE CAVIUS ADVANTAGE

Welcome to CAVIUS. Since 2004 CAVIUS has inspired the world of alarms, proudly protected homes, and saved lives. The unique, Danish design, combined with a professional UK-based Research & Development team, brings you the most advanced alarms.

Why choose CAVIUS? Because the alarms are superior to other standard designs for more than one reason:

### CORE TECHNOLOGY

The world's smallest smoke and heat alarms were designed by a Danish team, who are experienced in developing smoke alarm systems to EN54-7 certification.

### DESIGN

The CAVIUS alarms use premium components to ensure reliability in performance, stability, and the alarm will be 100% operational during their lifetime of 10 years.

### CHAMBER SIZE

To maintain a high quality performance; CAVIUS invests additional costs in the manufacturing of optical components, amplifiers for the photodiode and a micro controller to carry out signal processing.



### PERFORMANCE

The performance of the smoke sensor includes a wide smoke entry in all orientations around the alarm. It also includes strong resistance to false alarms due to point sources of contamination, insects, and humidity.

CAVIUS smoke alarms are certified for recreational vehicles.

### SOFTWARE

The software in the CAVIUS smoke alarm includes a fire detection algorithm with features similar to that found in expensive analogue detection systems.

The software also includes a calibration routine, which stores a gain factor in flash memory. This is more accurate than the variable resistor set by hand on most other alarms, and much more reliable long term.

The software also includes features for self-test, hush mode after alarm, and battery test.

### MANUFACTURING

During the manufacturing stage, 100% of all CAVIUS alarms are tested in a smoke tunnel to ensure the right calibration and are checked in an echoic room for sound output test. Samples from each production week are sent to an accredited lab and an external audit company will inspect and test the alarms before shipping them to the retailer.

Our factory is audited several times per year from NF, VdS, and ISO.

## NZ BUILDING CODE REQUIREMENTS



From November 2023 the Building Code Acceptable Solutions for Protection from Fire (C/AS1 and C/AS2) will be amended to make interconnected smoke alarms the minimum fire safety system for new built homes and substantial renovations, citing NZS 4514:2021 – Interconnected smoke alarms for Houses.



All smoke alarms must be either powered by a long-life (minimum 10 years, non-removal and sealed) battery or mains power.



All smoke alarms must be interconnected with each other, this can either be wired or wireless. The CAVIUS Wireless Family alarms connect with each other wirelessly, without the need to run cable between each alarm.

Interconnecting the CAVIUS Wireless Family alarms is a simple and quick process.



A smoke alarm must be installed in every bedroom, living spaces, hallways, and landings within the dwelling. On a multi-level household unit, there must be at least one smoke alarm on each level. If the kitchen is separated from the living spaces and hallways by doors that can be closed, a heat alarm shall be installed. This may include the scullery.



LEARN MORE

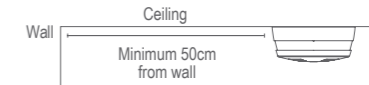


## RECOMMENDED SMOKE ALARM PLACEMENT

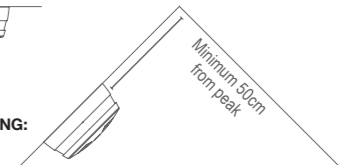
The best location for any smoke alarm is on the ceiling and in the centre of the room they are intended to protect.

The smoke alarm must be at least 30cm from the corner where the ceiling and wall join and 50cm from the apex of a cathedral ceiling. Within these areas are 'Dead Air Zones', which oxygen gathers and a smoke alarm will not activate.

### FOR CEILING INSTALLATION:



### FOR CATHEDRAL OR PEAK CEILING:





**CAVIUS WIRELESS FAMILY  
10 YEAR PHOTOELECTRIC  
SMOKE ALARM**

The Wireless Family alarms interconnect to each other using innovative Radio Frequency technology; when one alarm activates, they all sound.

The battery-operated CAVIUS Wireless Family alarms require no wiring. Setting up and interconnecting your alarms is a simple 2-minute process.

Once connected; when one alarm starts to siren, it will send out a 360-degree signal, all other CAVIUS Wireless Family alarms in range will also start to siren. The range between alarms depends on the building materials used and should be tested in each individual case.

**Product Code: 2107 CAV10WF**

Diameter: 78mm  
Profile: 19mm (Recessed)  
38mm (Standard)

**FEATURES**

- Connect up to 32 alarms
- Connects to CAVIUS Smart Remote
- 2 x CR123A 10 Year long-life batteries (sealed)
- Two installation options; Recessed or Standard mounting base
- 85dB(A) at 3 meters
- Easily accessible 10-minute hush & test button
- Two levels of screening to minimise insect and dust contamination
- Safety Lock/tamperproof mechanism
- 30-day low battery alert
- AS3786:2014 certified, NZ Building Code, NZS 4514:2021 and RTA Compliant.

**CERTIFICATIONS**

- AS3786:2014
- NF292
- RoHs
- Reach
- ActivFire®



**CAVIUS WIRELESS FAMILY  
MAINS POWERED PHOTOELECTRIC  
SMOKE ALARM**

The CAVIUS Wireless Family alarms interconnect to each other using innovative Radio Frequency technology; when one alarm activates, they all sound.

Once connected; when one alarm starts to siren, it will send out a 360-degree signal, all other CAVIUS Wireless Family alarms in range will also start to siren.

**NB: Mains powered alarms need to be installed by a professional or registered electrician.**

**Product Code: 2203 CAVMP**

Diameter: 97mm  
Profile: 52mm (Standard)  
22mm (Recessed)

New Zealand's smallest mains powered smoke alarm just got smaller. With the recess kit mounting base, the CAVIUS Wireless Family Mains Powered Smoke Alarm is reduced to a 22mm profile. Recess Kit Base sold separately.

**Product Code: 2901 RK**



**FEATURES**

- Connect up to 32 alarms
- Connects to CAVIUS Smart Remote
- 10 Year long-life battery backup (replaceable)
- Recessed option available
- 85dB(A) at 3 meters
- Easily accessible 10-minute hush & test button
- High grade epoxy gel for humidity resistance
- Two levels of screening to minimise insect
- Green 'Power On' LED light as a visible indicator of mains power supply
- Ability to work as a lamp / ceiling rose
- AS3786:2014 certified, NZ Building Code, NZS 4514:2021 and RTA compliant

**CERTIFICATIONS**

- AS3786:2014
- NF292
- RoHs
- Reach
- ActivFire®





**CAVIUS WIRELESS FAMILY  
10 YEAR THERMAL HEAT ALARM**

The Wireless Family alarms interconnect to each other using innovative Radio Frequency technology; when one alarm activates, they all sound.

The alarm has been designed to warn of flaming fires in the areas not suitable to install smoke alarms: kitchens, garages, workshops or laundries.

If rapid and constant change of temperature increases and the temperature level reaches >58°C, the alarm will sound.

<b>Product Code:</b>	<b>3107 CAVTH10WF</b>
Diameter:	78mm
Profile:	15mm (Recessed) 38mm (Standard)

**FEATURES**

- Connect up to 32 alarms
- Connects to CAVIUS Smart Remote
- Two installation options; Recessed or Standard mounting base
- 10 Year 'long-life' battery (sealed)
- 85dB(A) at 3 meters
- Easily accessible 10-minute hush & test button
- 30-day low battery alert
- EN60065 certified

**CERTIFICATIONS**

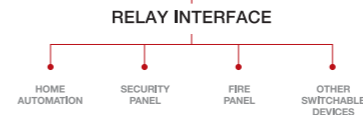
- CE, EN60065
- Tested according to the heat standards of EN54-5
- RoHS
- Reach



**AUXILIARY PRODUCTS**



**CAVIUS WIRELESS FAMILY  
RELAY INTERFACE**



The CAVIUS Relay Interface connects and integrates the CAVIUS Wireless Family alarms to third-party external products such as; security panel, home automation, fire panel and other switchable devices. When the smoke or heat alarms are activated, the relay interface unit will notify and activate connected external devices.

**FEATURES**

- Relay (NO/NC) activities when the CAVIUS Wireless Family alarms detect a fire event
- Trigger Input for two-way activation (latched or pulsed)
- 240v with replacement backup Duracell lithium battery
- Output Relay: 250v AC @ 5 amps or 30v DC @ 5 amps
- Trigger Input; Volt-free:3v DC output with return, Voltage in: 3v – 30v
- Green LED visual indicator of mains power supply

**Product Code:** 9005 CAVRI      Length: 145mm x 110mm



**CAVIUS WIRELESS FAMILY  
SMART REMOTE CONTROL**

The CAVIUS Smart Remote is part of our Wireless Family range and allows you to test and hush your smoke and heat alarms from the remote, removing the need to physically touch the alarm's test and hush button.

**FEATURES**

- Will strobe, vibrate and alarm once a CAVIUS smoke or heat alarm is activated
- Ability to test and hush your Wireless Family alarms
- Built in LED torch for everyday use
- Comes with a magnetic wall bracket for convenient placement
- Can be used as the 'Master' when setting up your CAVIUS Wireless Family alarm system



**Product Code:** 9002 CAVSR      Length: 140mm



**CONTACT US**

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reddot design award  
winner 2013



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winner 2016