

CAVIUS™

WIRELESS. 
ALARM FAMILY

WIRELESS

ALARM FAMILY



HEAT
65 mm 5 year battery



SMOKE
65 mm 5 year battery



FLOOD
65 mm 5 year battery



MAINS POWERED SMOKE
97 mm 230V

WIRELESS
ALARM FAMILY



100%
TESTED



ENVIRONMENTAL
FRIENDLY



DANISH
DESIGN



WIRELESS

ALARM FAMILY



CAVIUS APS, CREATED AN AFFORDABLE ALARM FAMILY OUT OF THE ORDINARY

Several European countries demands Mains powered smoke detectors in private houses.
Some countries demand one in each house.
Some countries demand one on each floor.

Due to the high cost of mains powered smoke detectors, private homes often stick to the minimum requirements.

Sofar communication between wireless battery operated alarms and Mains powered alarms, has not appeared in the market.

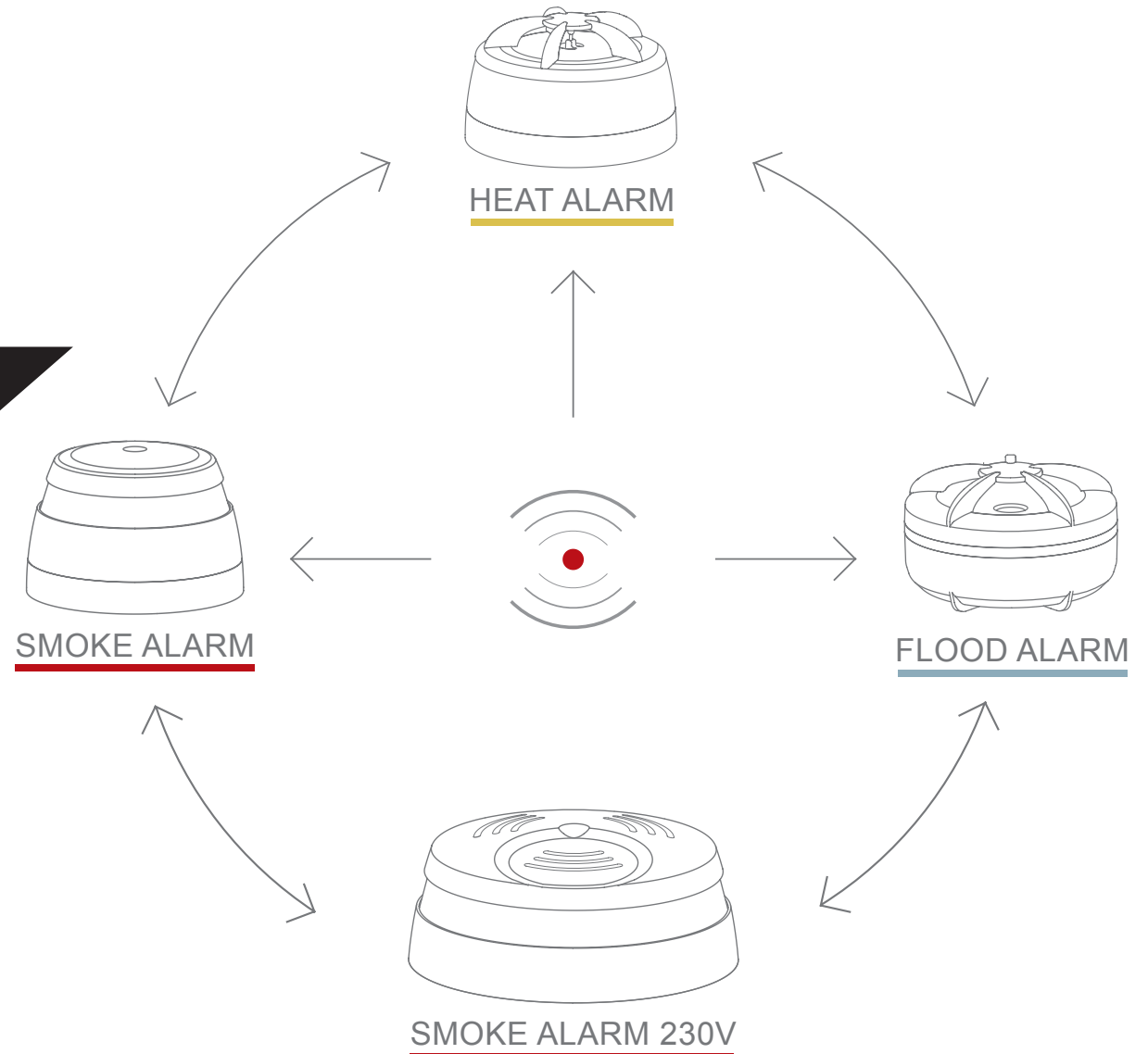
Cavius has created a Wireless Alarm Family range that communicates across features. This means that the Cavius Mains powered smoke alarm can communicate with any other Cavius wireless battery operated alarm.

Wether there is a flood in the basement or a fire in the addict, smoke in the hallway, CO leak in a gas heater, ALL alarms will start warning the inhabitants. The detector causing the alarm will be easy to identify, due to difference in both visible and audible warning patterns.

Along side with this new way of thinking, Cavius also created a remote controle/ flashlight to the range.
The uniqueness is the communication between the alarm device and the remote. If an alarm appears, the Cavius flashlight will emit and help you find your way out.

At the same time, the remote can be used to either test or pause the single alarms.

The Cavius Wireless Family can operate as a single system, as well as on a Home automation system



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MAINS
POWERED
SMOKE ALARM



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SMOKE



HEAT



CAVIUS smoke alarms - Advantages:

The following explanation shows why the CAVIUS smoke alarms are superior to other more standard designs:

Core technology:

The core technology of the CAVIUS 40mm smoke alarms was designed by a team experienced in developing high quality system smoke detectors to EN54-7. There are often many hundred detectors on a system, and single false alarm can cause evacuation of hotels, hospitals, shopping centres etc. They also have to be highly reliable in detecting fires. There is also direct involvement with forming and revising EN system and smoke alarm standards.

Design:

The alarm design with the stacking of all the components: Battery, electronics, chamber and sounder in order to make the overall design as small as possible were a first on the market and revolutionized the smoke alarm industry. CAVIUS alarms are using the highest quality components to ensure quality, reliability in performances, stability and to ensure products will be 100% operational during their lifetime of 10Y.

Chamber size:

The effective size of the smoke sensing chamber is much smaller than previous 'standard' designs. To maintain a good quality performance this requires additional cost in the optical components, amplifiers for the photodiode and a good quality micro controller to carry out signal processing. It would be possible to make a smoke alarm with a larger smoke sensor at a reduced cost.

Performance:

The performance of the smoke sensor includes a good smoke entry in all orientations around the alarm. It also includes a very good resistance to false alarms due to point sources of contamination, insects, and humidity. This is not the case with most other larger smoke alarm sensor designs.

Due to this, CAVIUS smoke alarms are certified for recreational vehicles where the exposure to different humidity and change in temperature is greater.

Software:

The software in the CAVIUS smoke alarms includes a fire detection algorithm with features similar to that found in expensive analogue detection systems. This includes correction for drift due to the build-up of contamination, rejection of spurious signals, temperature compensation and averaging of the signal levels. These features give a superior performance to the simple alarm thresholds used in standard smoke alarm ICs. 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:

CAVIUS alarms are testing 100% of the production in a smoke tunnel to ensure the right calibration, and every single piece is checked in an anechoic room for sound output test.

Samples from each production week are sent to an accredited lab, and we are always having an inspection before shipment by an external audit company.

Factory is audited several times per year (NF, VdS, ISO, Customers...)