



### Sensors

The CWD range of sensors are designed to comply with EN54 Part 5 & 7 and are based on multi-sensor technologies using combinations of optical smoke detection and both fixed temperature and rate of rise heat detection. These elements can be selected to provide optimum detection of all types of fire and operating conditions.

#### CWD910 Sensor

- > Multi-sensor technology combining optical smoke detection and configurable heat detection (fixed, r-o-r & high temperature)
- > Drift compensation
- > Tamper alarm
- > First fix base
- > Concealed antennas

#### CWDB920 AV Unit is as the CWD910 sensor integrated with:

- > Highly visible LED alarm beacon
- > Alarm sounder
- > 3 Volume settings
- > 4 Tones

# Manual Callpoint

CWC950 Manual Callpoints designed to comply with EN54 Part 11 and shares all the features of the Cooper Addressable Callpoint on which they are based. In addition a tamper switch is provided so that an alarm is transmitted to the CW9000 Control Panel if the callpoint is dismantled or removed.

- > Reassurance LED
- > Glass or plastic resettable element (both provided)
- > Tamper alarm
- > Concealed antennas

# **Open Area Sounder** & Beacon

CWSB980 Sounder / Beacons are designed to comply with EN54 Part 3 and are based on the Cooper AV unit providing a combined audible and visual alarm to suit applications affected by the Disabilities Discrimination Act.

- > 100db(a) Sounder
- > Integrated highly efficient LED beacon
- > Tamper alarm
- > 3 Volume settings
- > 4 Tones

# Signal Booster

If the initial radio survey shows that there are areas of a building where signal levels are below that required for reliable operation, then CWB9500 Signal Boosters can be located to provide the necessary improvement in signal strength.

- > Wireless or cabled connection to main Control panel
- > Full bi-directional radio communication
- > Mains/battery EN54 Part 4 Compliant power supply
- > Up to 28 devices per booster
- > Up to 8 boosters per Control panel

# Input / Output Units

The Input / Output modules for the CW9000 system allow the transferring of signal between CW9000 and other fire and non-fire systems.

#### CWIF930 3 Channel I/O Module

- > 3 Programmable inputs
- > 3 Programmable outputs
- > Programmable fire or non-fire signals

#### **Product Codes**

CW9000	Analogue addressable radio control panel		
CWB9500	Booster panel		
CWH9600	Hybrid panel (future development)		
CW500	Survey kit		
CWD910	Analogue addressable radio multi sensor		
CWDB920	Analogue addressable radio multi sensor/sounder/beacon		
CWC950	Radio callpoint		
CWSB980	Radio wall mounted sounder/beacon		
CWIF930	3 Channel input/output unit		

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# Survey Kit

A radio survey is the key to correct and trouble-free operation of any wireless fire detection system.

The CW500 survey kit is supplied in a handy carrying case and operates both as an initial survey instrument and then as a commissioning tool once the equipment has been installed.

During the survey the equipment simulates both the control panel and the field devices quality by "pass / fail" LEDs and also by a digital readout.

At commissioning the hand held unit is used to stimulate each device via a short range radio signal so that addresses can be stablished with the main control panel or signal booster.

The hand held unit can also be mounted on a standard smoke test pole to allow the exact location wh a device is to be fitted.



COOPER

CC1771



# **CW9000 Wireless Fire Detection**

The new wireless system from Cooper providing a fire detection and alarm system using secure wireless connections between the field devices and the control panels.



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#### CW9000 Wireless System



For both business and leisure radio technology is now common place. Such are the advances made in wireless technologies in recent years that most people use wireless devices without a second thought.



Using a new Cooper wireless protocol, CW9000 provides a fire detection system using secure wireless connections between the field devices and the control panels.

Based on well proven components the sensors, sounders, beacons and callpoints give CW9000 a highly reliable foundation into which the wireless technology has been integrated to provide a fully featured analogue addressable fire detection and alarm system.

The development of CW9000 has tracked the progress of the European standard EN54-25 "Fire detection and fire alarm systems. Components using radio links", and has therefore been designed to conform fully with all aspects of this document.

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#### System Features:

- > Meets the requirements of EN54-25
- > Addressable 250 device system
- > Range greater than 1km in free air
- > Low profile aesthetics
- > European tones, fully synchronised
- > Dual anti-tamper function
- > Peripherals use standard AA cells

#### Applications:

- > Fast installation requirement: Time limited situations schools, hospitals
- > Heritage: Limited disturbance to priceless
- décor, no go areas for cabling
- > Temporary systems: Building sites, site-cabins, temporary structures
- > Frequent reconfiguration: Flexible offices, small shops, display areas
- > Difficult cable routes: Areas with difficult or limited access, or where disruption is unacceptable

is paramount.

economies in the installation process.







# The complete wireless system

## System Features & Benefits

Wireless technology offers unique advantages when compared to the installation of wired detection and alarm systems:

- Fast and simple installation requiring only limited cabling, installation time is greatly reduced. CW9000 is ideally suited to situations where there are limited time periods for work to be undertaken, such as in educational, healthcare and retail establishments.
- Reduced disruption the lack of cables also means that there is little damage to the fabric of the building, especially important in heritage sites or prestigious areas.
- Apart from precious décor, the lack of invasion into the structure reduces mess and the risk that dust and rubble will enter vital areas which is particularly important in sterile and food preparation areas and other places where cleanliness
- Flexibility changes to the configuration of a building and reconfiguration of the system can be accommodated both quickly and simply, minimising down time and essential for rapid refits.
- For temporary installations or situations such as small retail outlets where occupation can change frequently the lack of cables means that an optimum system configuration can be maintained without major system reworking.
- Cost saving as devices only have to be fixed to the building, there is no need to run fire resistant cable, trunking, conduit or concealed cables, saving in both materials and labour. The use of multifunction components, such as the integrated AV sounder beacon means there are fewer points to install leading to further
- The unique survey and commissioning tool has been designed to allow these critical functions to be performed by a single person, again saving effort on site and reducing cost. A further consideration is the cost of the batteries used in the system, by standardising on easily available off the shelf batteries, and ultra-low power consumption to extend operational life and minimise system running costs.

#### Basic system components:

- > Touch Screen Panel
- > Opto / heat detector
- > Opto / heat detector / sounder / beacon
- > Wall Sounder / Beacon
- > Callpoint
- > Input / Output Module
- > Survey / Installation Tool

The CW9000 system comprises a wide range of panels and field devices that integrate to form a fully featured, flexible wireless fire detection and alarm system meeting all current European standards.

#### Control panel

The CW9000 Control Panel is equipped to operate fully a featured analogue addressable fire systems with bi-directional communication to all devices via a user friendly 'touch-screen' display.

- > 250 Radio devices per panel
- > 16 Detection zones
- > Large LCD for clear indication of status and programming
- > Comprehensive panel i/o facilities
- > Full bi-directional radio communication

#### Hybrid panel (future development)

The CWH9600 Hybrid Controller is designed to be added to any current wired Cooper Analogue Addressable Fire Detection System to give wireless coverage within specific areas, it can provide local coverage for sensitive areas or temporary installations, or areas that are difficult to access.

- > 32 Addressable devices per unit
- > Full bi-directional radio communication
- > 16 units per addressable loop

#### Batteries

While radio control panels and signal boosters operate from a battery backed mains supply (which is designed to comply with the latest EN54 Part 4) the true economy and reliability of the wireless fire alarm system is highly dependant on the cost and availability of the batteries used in the various field devices, such as the sensors, callpoints, sounders and interfaces.

The CW9000 system incorporates a number of innovative design features that enables battery life in excess of three years, from readily available, across the counter, standard AA cells. Battery monitoring functions ensure that early warning of any low battery conditions is signalled and can therefore be co-ordinated with normal maintenance procedures. Battery replacement is therefore both economic and simple.