

ActiV, CAST and CAST PRO Fire Detectors Maintenance Guidelines

1 Fire Detection System Testing and Maintenance

Periodic inspection, testing and maintenance of fire detection systems should be carried out in accordance with national, regional or local standards. In the UK the relevant standard is BS5839-1, Fire detection and alarm systems for buildings: Code of practice for system design, installation and maintenance.

Inspection and maintenance of the system should only be carried out by a competent person with specialised knowledge of fire detection and alarm systems. This is normally a third-party fire alarm maintenance organisation.

It is essential that any alarm-receiving centre be contacted immediately before, and immediately after, any operational tests to ensure that unwanted alarms are avoided and that fire alarm signals are correctly received.

The results of periodic tests and reported faults should be recorded in the system logbook.

2 Routine Detector Maintenance

C-TEC's ranges of conventional (ActiV), analogue addressable (CAST) and CAST PRO fire detectors are high quality, reliable devices but every detector should be functionally tested over a period of 12 months to prevent unwanted alarms.

The detectors are not to be disassembled because this would affect their calibration. However, they can be maintained as follows:

- Make sure that the detectors' supplied dust covers have been removed. This should be done after first fix or after building works have been completed. The detectors will not detect fire with their covers fitted.
- Disable the zone undergoing maintenance to prevent unwanted alarms.
- Ensure detector heads have not been painted, are not damaged, are securely fixed and that no apertures are obstructed.
- Perform operational and functional testing as detailed in section 1 'Fire Detection System Testing and Maintenance'.
- Ensure the detector housings are clean (see section 2.1 'Cleaning Fire Detectors').
- Detectors should be tested to ensure their operating parameters are in accordance with data published in the relevant detector datasheet (see section 2.2 'Detector Datasheets').

2.1 Cleaning Fire Detectors

DO NOT disassemble detectors as this will damage the electronic components and will invalidate the warranty. Do not try to open or repair the detectors. There are no user-serviceable parts inside.

The detector's apertures should not be blown using air nor should a vacuum cleaner/brush be used to remove dust from the detector.

Contaminated detectors, e.g. do not detect fires or cause false alarms, should be replaced.

2.2 Detector Datasheets

<i>Detector Product Code</i>	<i>Detector Type</i>	<i>Datasheet No.</i>
C4403A2, C4403B, C4403A1R	ActiV Heat Detectors	DML0528300
C4416	ActiV Optical Smoke Detectors	DML0528500
C4414	ActiV Multisensor Fire Detectors	DML0528600
CA402	CAST Heat Detectors	DFU4020000
CA416	CAST Optical Smoke Detector	DFU4160000
CA414	CAST Multisensor Detectors	DFU4140000
HP402	HUSH Heat Detectors	DFU4020000
HP416	HUSH Optical Smoke Detector	DFU4160000
HP414	HUSH Multisensor Detectors	DFU4140000
CP416, CP402, CP414	CAST PRO Fire Detector Range	DFU4110010