

Domestic Detection

Jim Bywater
NFCC Domestic Detection Lead

Head of Central Prevention & Protection
Staffordshire Fire and Rescue Service



NFCC
National Fire
Chiefs Council

What's Going on?



NFCC
National Fire
Chiefs Council

Data Collection (39 replies)

- Smoke alarm return rates
- Future developments
- Testing advice
- What are we all fitting/gifting
- Position Statement

1. Smoke alarms

FRS/ Brigade

Smoke alarm manufacturer

Alarm type fitted

Annual order of smoke alarms

Annual returns to suppliers

Fault rate if known, can use sample data (20 no good/100 batch)

Households with no working smoke alarms at incident (annual figures)

Households with no working smoke alarms at home visit (annual figures)

Households with at least 1 working smoke alarm found at incidents (annual figures)

Households with at least 1 working smoke alarm at home visit (annual figures)

Households with 1 or more smoke alarms wrongly sited (location) found at incidents (annual figures)

Households with 1 or more smoke alarms wrongly sited (location) found at home visits (annual figures)

Do you fit Heat detectors? (Annual qty?)

Do you fit CO detectors? (Annual qty?)

Do you fit interlinked detectors? (Annual qty?)

Do you fit hard of hearing/ deaf detectors? (Annual qty?)

Do you fit any other equipment, please list?

2. Statement

Previous CFCIA statement: Fitting a smoke alarm on every floor of a home should be recognised as a minimum standard in a circulation space such as a hall or landing.

- It is recommended that, additionally, smoke alarms are fitted in every room in the house which is regularly inhabited (i.e. bedrooms, living rooms, dining rooms) based upon the fire risk to the occupants.
- It is additionally recommended that a heat alarm should be fitted in the kitchen where possible (these alarms should be inter-linked so that all will fire)

If disagree what needs changing?

3. Advice around frequency of check

Weekly	Monthly
Manufacturers recommendations	Specific timing linked
Comments:	

4. Best Practise, collaboration around alarms (all types)

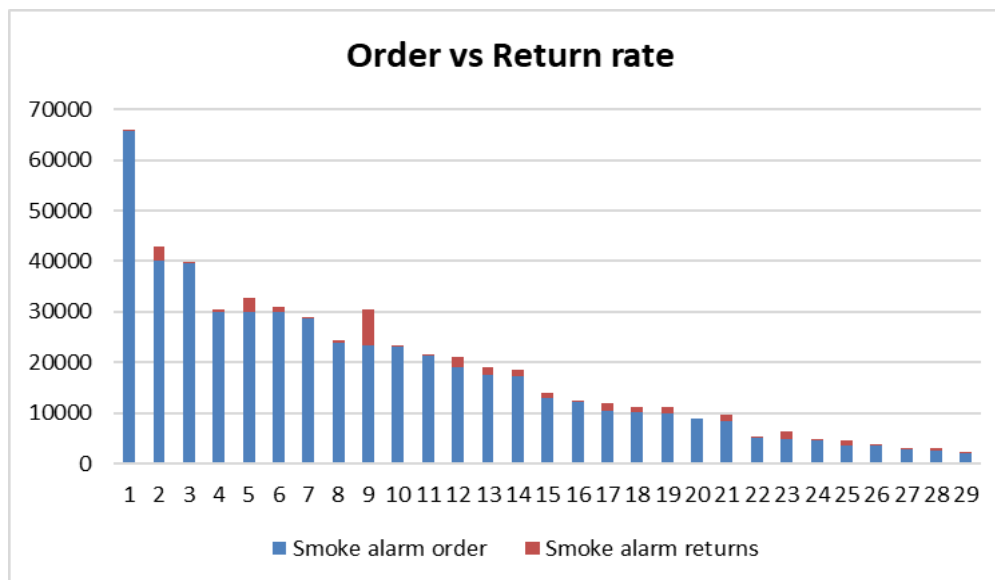
Brief details:



Return Rates v Fault Rates

- The return rates range from 0.3 % to 32%
- Manufacturers fault rates are a lot lower

Why?



Return Rates v Fault Rates

(Staffs) 72/ 100 found not faulty

- Damaged
- Contaminated
- End of life
- Activations!!!!!!



NFCC
National Fire
Chiefs Council

Return Rates v Fault Rates

Why should we care?

- Are we assuming all are faulty?
- Are we removing good alarms?
- Reputation - our staff and communities?
- Activations!!!!..... near miss?
- Demand!

Better communication and education
Future developments to understand the data in the
alarm!



Future Development

Fire Angel Connected Homes

A cloud based system compatible with a range of detectors which can be monitored. Currently now available. Fire angel 'predict' alerts a potential change in risk by monitoring frequency of alarms events, time to silence etc.

Fireblitz – Fire Hawk Nexus series - Wi Fi system with a set of wider AT alarms such as Panic buttons and shock sensors, available now by special order.

Aico – 3000 series

Launched June 2018, has a portal connecting to their main customers social landlords – (Mains supplied alarms).



aico Quality | Service | Innovation

Electronics

The 3000 Series Total Coverage. Total Intelligence.

- Fire & CO Protection** Two new alarms with two sensors ensuring total coverage.
 - EI3024 Multi-Sensor Fire Alarm
 - EI3025 Heat and CO Alarm
- Dust Compensation** A combination of a sensor chamber sealed with insect resistant mesh and intelligent software reduces the risk of nuisance alarms and maintenance costs.
- Easier Installation** Compatibility with existing *EasyFit* bases means an easy upgrade from existing installations. Also supplied with improved *easy-fit* base featuring larger wiring terminals and trunking pull-out.
- Data Extraction** Built in *AudiALINK* allows easy data extraction to a smartphone providing a detailed colour coded report that can be emailed direct from the app.
- Cloud Connectivity** Using *RadioLINK* wireless interconnection, add a *SmartLINK* Gateway to monitor all of your cloud connected alarms on a simple dashboard from anywhere.



www.aico.co.uk Tel: 01691 664100 e-mail: enquiries@aico.co.uk

Firehawk SAFETY PRODUCTS

The Nexus Series Stand-alone Sensors

Common features for all WiFi sensor devices

- All Alerts are sent to your Smart Phone. Notifications can be silent or accompanied by an Alarm Tone
- Powerful free of charge APP for your Smartphone
- Up to 100 individual Devices can be registered and seen in the APP & shared with other Smart Phones
- Create floorplans in the APP showing Device location
- Super low power consumption (typically 2 x AAA batteries per year)
- APP records last 30 activations with time and date
- Life-time Cloud service for the APP provided free of charge
- 4 Daily programmable Device disabled time periods
- 3M double-sided Tape for permanent fixing included
- Additional Low Battery and Loss of Signal Alerts sent

WiFi Smoke Alarm FHB10 WiFi

- Optical Smoke Alarm with Thermal Stability Enhancement
- Sends an alert if the smoke alarm is activated

WiFi CO Alarm CO7B WiFi

- CO alarm with long life sealed Lithium battery
- High-quality sensor
- Sends an alert if CO alarm is activated

WiFi Shock Sensor WT004

- Powerful built-in G Sensor
- Sends an Alert Notification once vibration detected
- Sensitivity Adjustment Setting

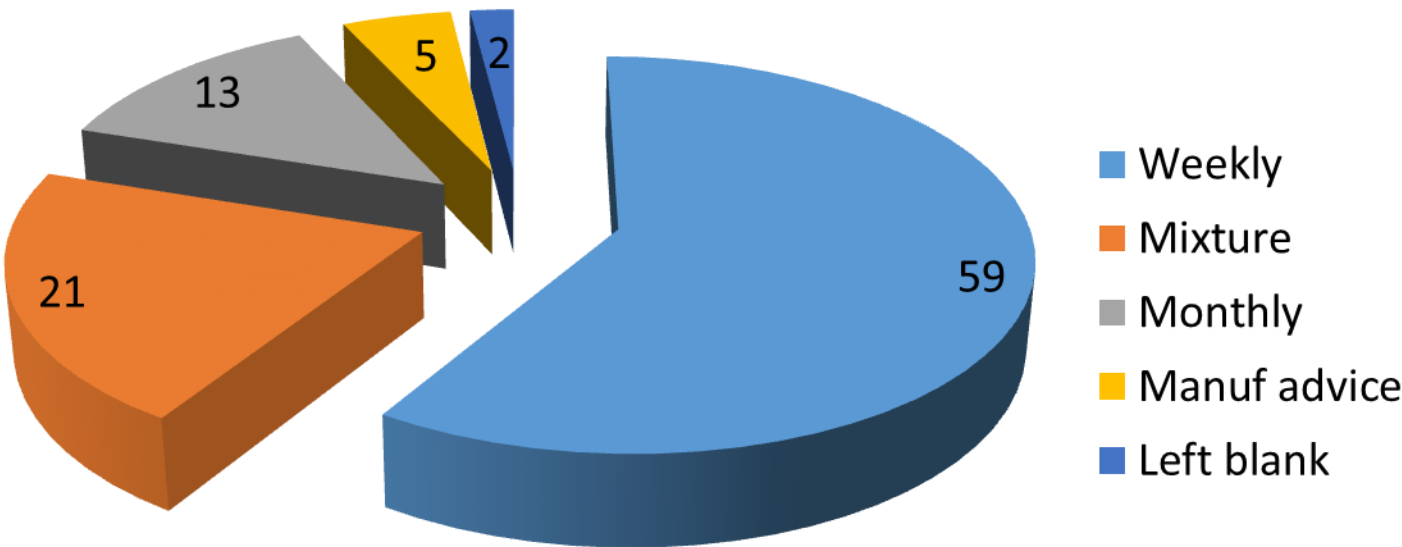
WiFi Panic Button WT005

- Sends an Alert Notification if the Button is pressed
- Nick Cord included
- Water resistant to IP44



NFCC
National Fire Chiefs Council

Smoke Alarm Testing



Which is right?

'Always follow the manufactures recommendations / guidance – our advice is to test your smoke alarm weekly with a minimum of monthly.'



NFCC
National Fire
Chiefs Council

What are we fitting?

All FRS's are using optical alarms, with the majority using a mixture of thermal multi sensor or enhancer.

Heat detectors:

16 of the 39 FRS's provide Heat detectors (41%).

CO detectors:

22 of the 39 FRS's provide CO detectors (56%).

Interlinked detectors (not hard of hearing):

16 of the 39 FRS have fit interlinked alarms (41%).

Hard of hearing alarms:

36 of the 39 FRS's provide Hard of hearing alarms (92%).
Numbers are mainly in the hundreds.



Position Statement

Fitting a smoke alarm on every floor of a home should be recognised as a minimum standard (in a circulation space such as a hall or landing).

- It is recommended that, additionally, smoke alarms are fitted in every room in the house which is regularly inhabited (i.e. bedrooms, living rooms, dining rooms) based upon the fire risk to the occupants.*
- It is additionally recommended that a heat alarm should be fitted in the kitchen.*

Where possible, these alarms should be inter-linked so that all will actuate if one does.

- 85% agreed with the statement**
- Appears to reflect what we are fitting currently**
- Concerns around budgets**



NFCC
National Fire
Chiefs Council

Next Steps

- Working smoke alarm data - confusion! (IRS Q)
- Education and communication - Returns
- Share this data and SPOC for concerns
- Issue Position Statement

Other areas of work

- Ionisation alarms – facts!
- British Standards
- Future developments and best practise shared

