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# Sustainable Communities – Protecting our local environment

Fire Protection

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# Building Technologies (Fire Safety)

**What does having a fire do to your Carbon footprint??**

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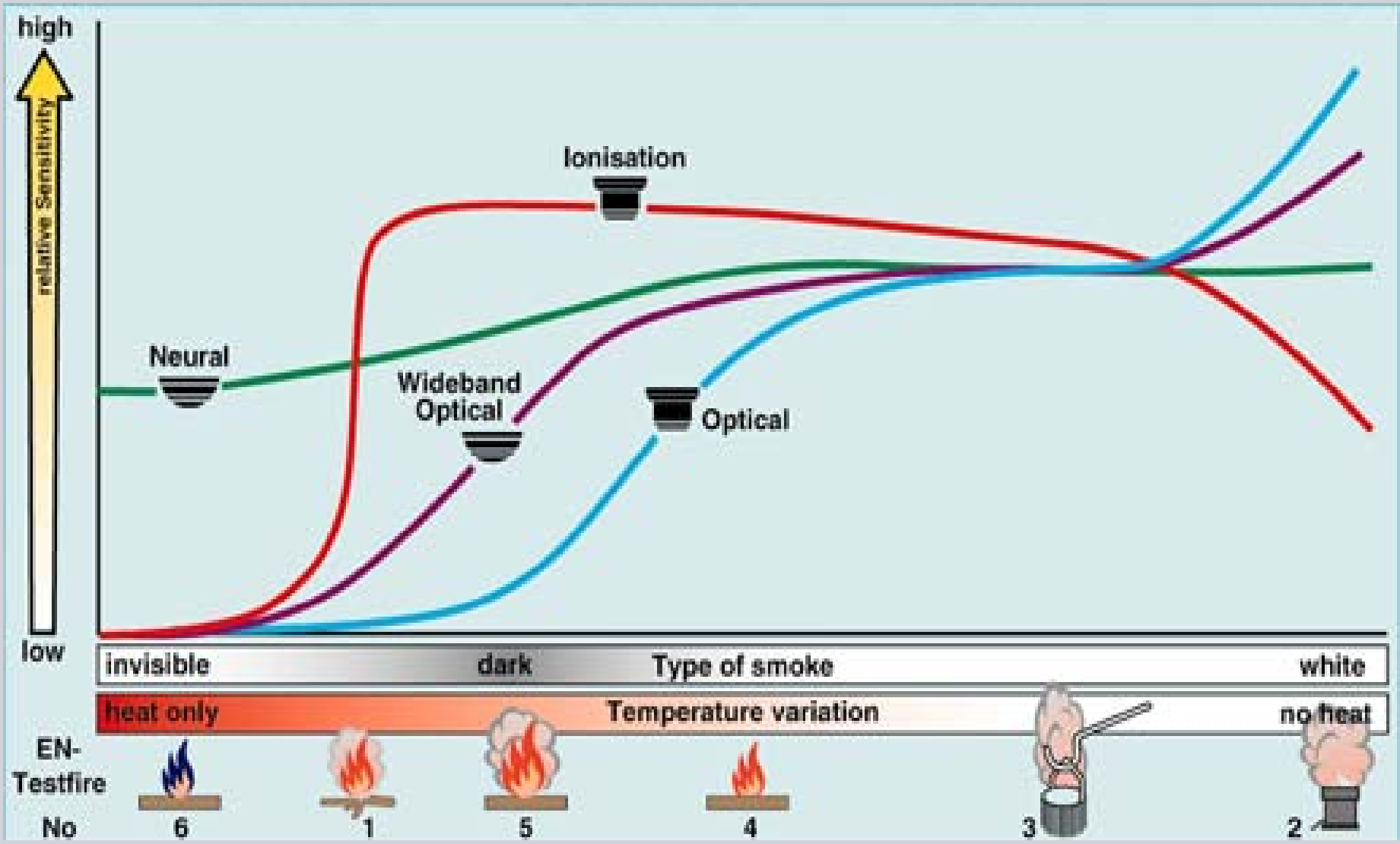
# One Detector for ALL Fires?



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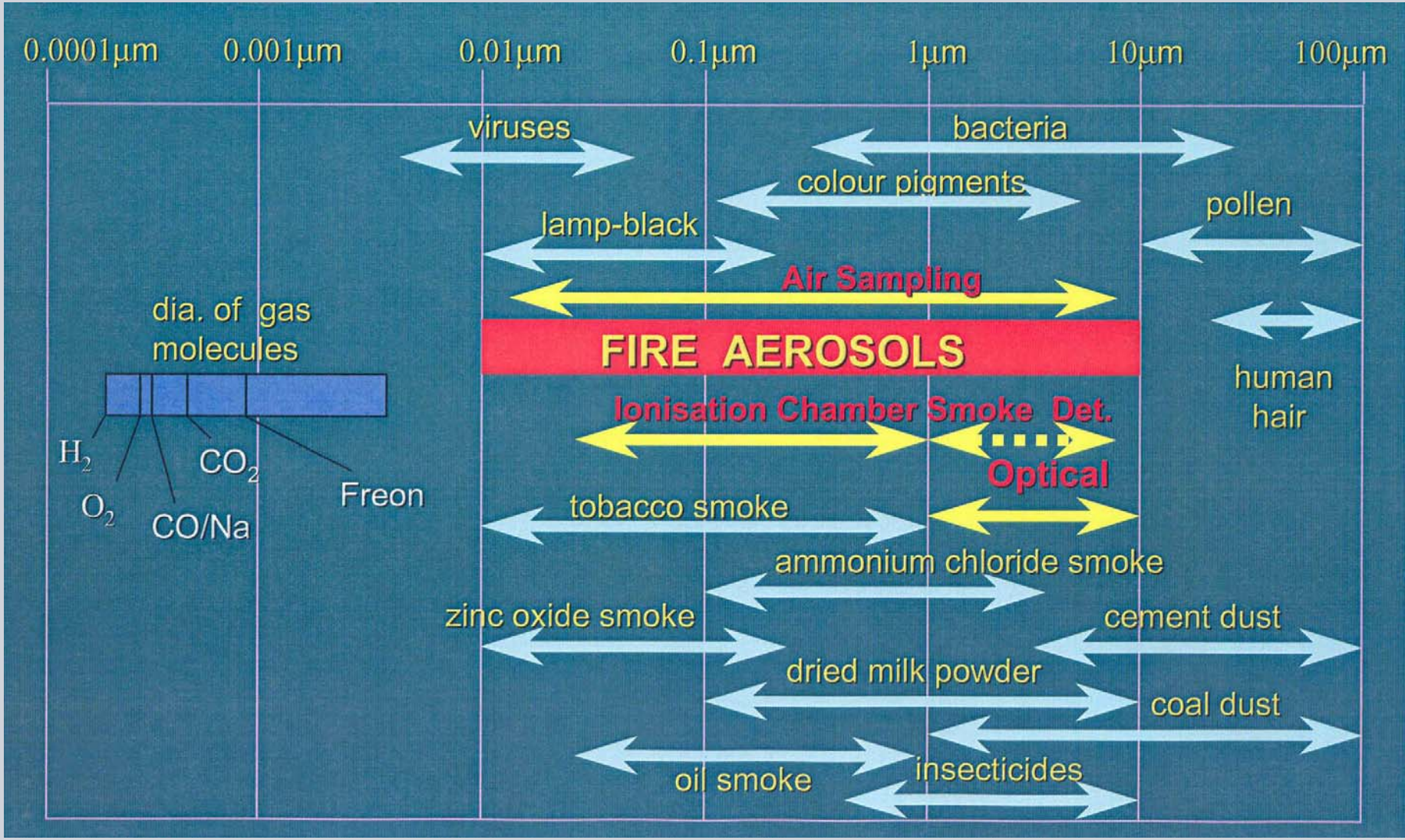
# Reliable Fire Detection without False Alarms



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# Ionization Type Detectors

**Source :- Americium 241 (Am241)**

**½ life of 432 years**

**Cost implication due to disposal of detectors**

**Excellent detector for Flaming fires**

**Need to find replacement**

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# Intelligent Detectors

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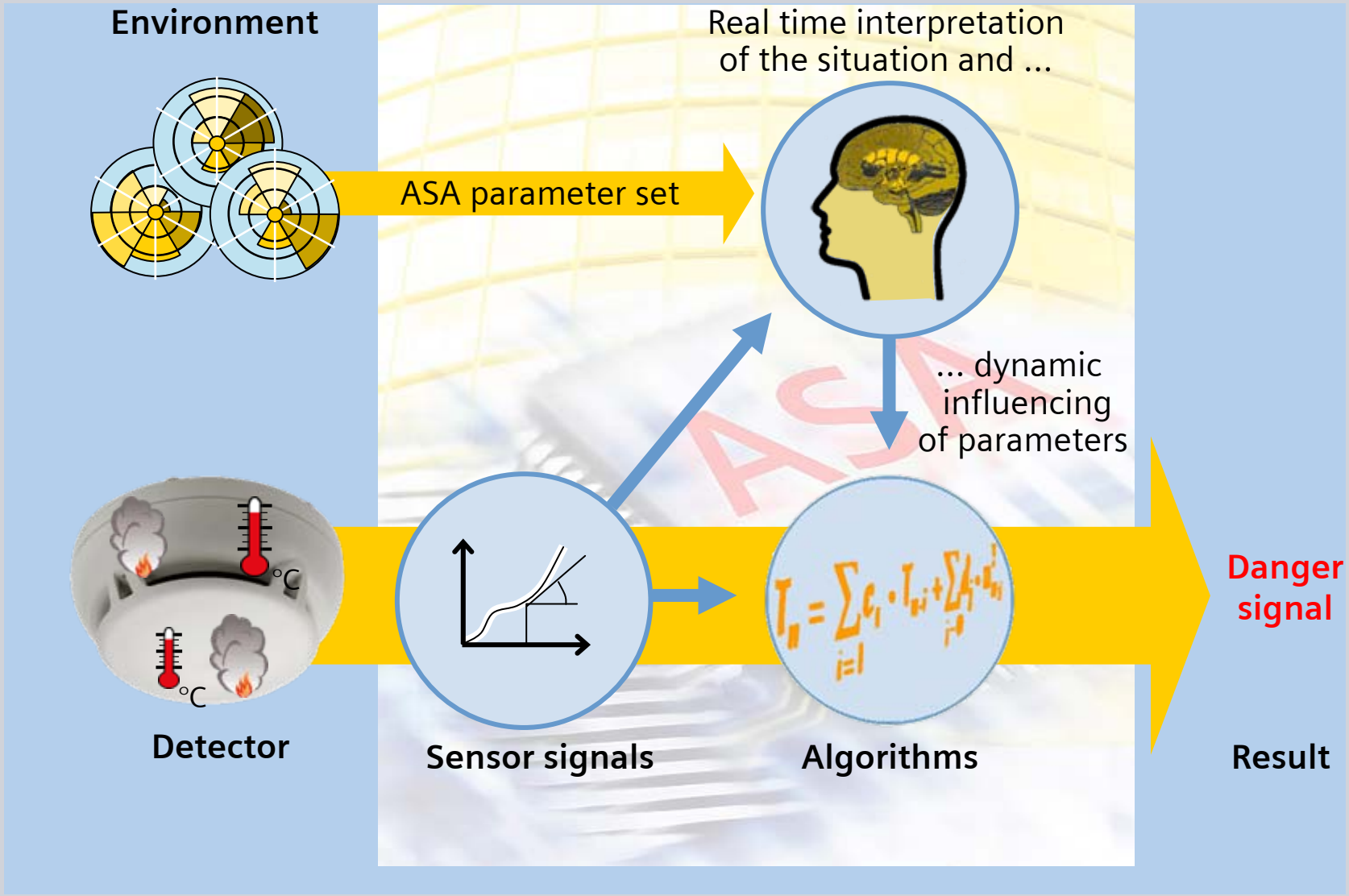
# Sinteso Intelligent Detectors



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# Intelligent Detectors

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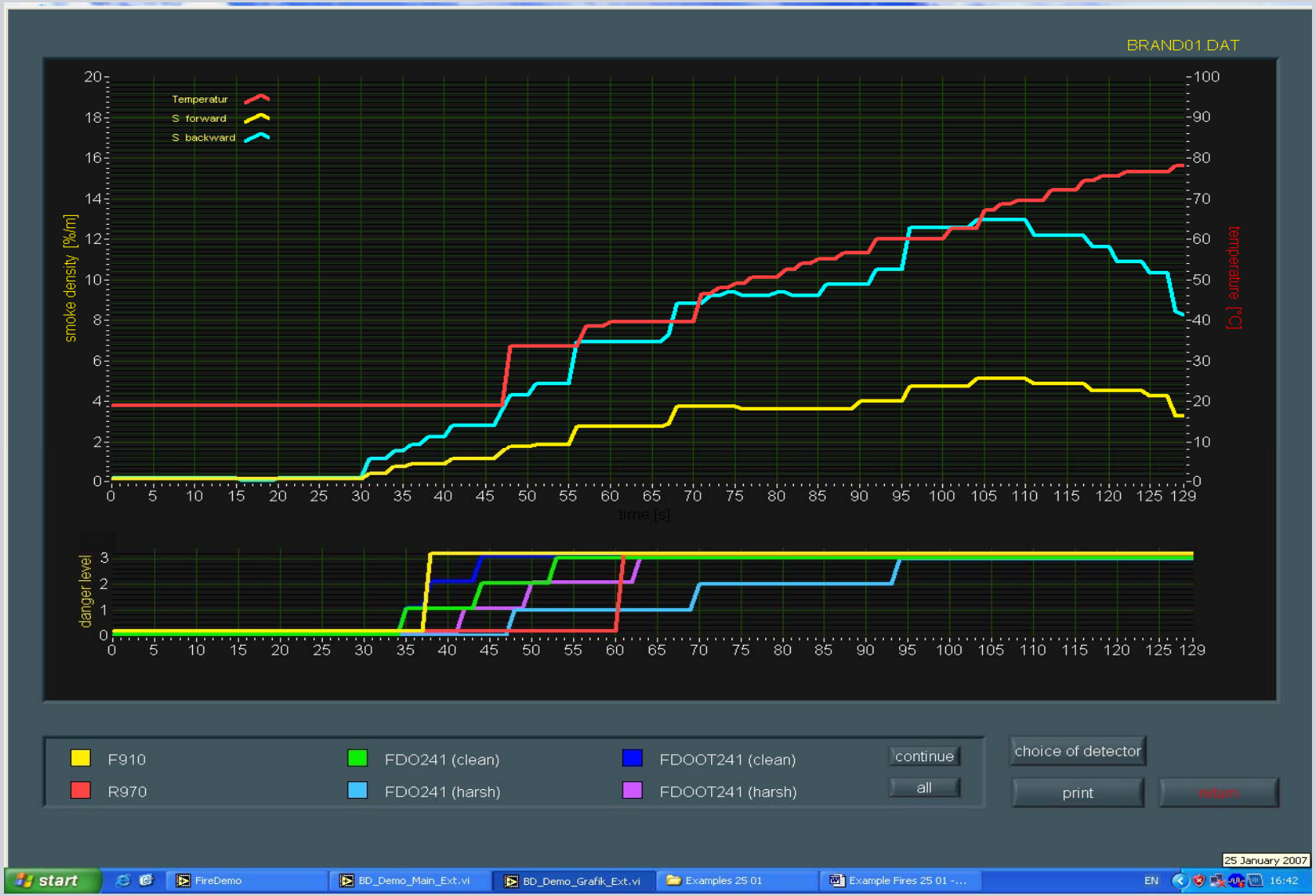
# Intelligent Detectors



# CFOA POLICY FOR THE REDUCTION OF FALSE ALARMS & UNWANTED FIRE SIGNALS

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## IMPACT OF FALSE ALARMS

■ Disruption of business (downtime and time wasted, loss of business, theft).

■ Erode user's confidence in the value and reliability of AFAS and discourage people from taking these systems seriously.

# CFOA POLICY FOR THE REDUCTION OF FALSE ALARMS & UNWANTED FIRE SIGNALS

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## IMPACT OF UNWANTED FIRE SIGNALS

- Diverting essential services from emergencies (putting life and property at risk).
- Cost to business of retained fire fighters being released.
- Unnecessary risk to crew & public whilst responding (accidents).
- Disruption to arson reduction, community safety & fire safety activities (education, smoke detectors, etc).
- Disruption to training of operational personnel.
- Impact on the environment of unnecessary appliance movements (noise and air pollution).
- Drain on public finances.

## IMPACT OF UNWANTED FIRE SIGNALS

Cost to business in restarting production lines, process and additional fuel costs etc. in getting back to “normal” operations

**Example**

Two weeks for a chocolate production line to be cleaned and brought back up to operational conditions

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## Chief Fire Officers Association

### Attendance Level 1

- An immediate emergency
- Will be not less than one fire appliance

### Attendance Level 2

- Attendance may be made under non-emergency conditions (i.e. Obeying speed restrictions & without lights flashing)
- The availability of the resource is still available for confirmed emergencies. (i.e. The Fire Engine may be diverted to a higher priority)

### Attendance Level 3

- No emergency response unless confirmed by 999 call

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# Fire in the UK - Putting it in perspective 2007

| | |
|---|---|
| Dwellings | 52,700 |
| Others (sheds, private garages,farm buildings) | 7,800 |
| Construction industry premises | 100 |
| Other industrial premises (incl offices) | 2,400 |
| Retail distribution | 4,200 |
| Hotels,boarding houses, hostels | 1,800 |
| Recreational and cultural premises | 1,700 |
| Restaurants, cafes and pubs | 2,600 |
| Hospitals | 1,500 |
| Education | 1,500 |
| Others and unspecified buildings | 7,400 |

| | |
|---|---|
| Total for all types of buildings | 83,700 |
| Total for possible ARC reported fires | 23,200 |

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# False Alarm Statistics For the UK

| | Annual Total | Due To Apparatus |
|---|---|---|
| 1988 | 325,100 | 73,500 |
| 1989 | 370,500 | 90,000 |
| 1990 | 400,700 | 97,800 |
| 1991 | 423,300 | 100,800 |
| 1992 | 448,500 | 104,200 |
| 1993 | 455,800 | 107,800 |
| 1994 | 488,300 | 123,400 |
| 1995 | 507,000 | 153,300 |
| 1996 | 489,700 | 212,800 |
| 1997 | 489,500 | 231,700 |
| 1998 | 456,600 | 233,500 |
| 1999 | 467,598 | 251,158 |
| 2000 | 460,500 | 264,600 |
| 2001 | 481,100 | 279,800 |
| 2002 | 477,100 | 279,200 |
| 2003 | 473,000 | 280,000 |
| 2004 | 448,400 | 286,600 |
| 2005 | 439,100 | 285.200 |
| 2006 | 435,900 | 283,500 |
| 2007 | 419,477 | 270,995 |


Ratio 11.7 : 1 (18 : 1)

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# Thank You


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