

GAIN CONFERENCE 2009
14th May 2009



WORKING WITH GAIN TO HELP PROMOTE CO AWARENESS

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Manager**

Honeywell Analytics (Domestic Products)

- Leading the way in domestic gas detection

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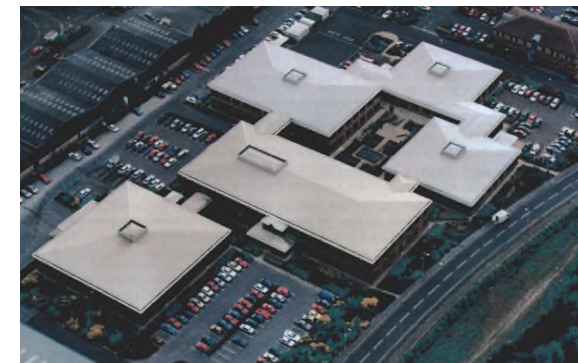
Who Are Honeywell Analytics (Domestic) ?

Honeywell

- The domestic gas detection division of Honeywell (formerly know as SF Detection)
- Supported by 50 years experience in gas detection
- UK's/Europe's No.1 manufacturer of domestic CO alarms
- Only approved supplier of domestic CO alarms to British Gas since 1997
- Manufacture our own specialised sensing technology



**MAIN FACTORY
POOLE, ENGLAND**



Carbon Monoxide (CO) – “The Silent Killer”

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- Produced by the burning of any fossil fuel (gas, coal, oil, wood...etc)
- CO kills and injures many people in their homes every year
- Main problems from faulty appliances and blocked flues
- Symptoms are often mistaken for flu



CO poisoning – What are the Symptoms ?

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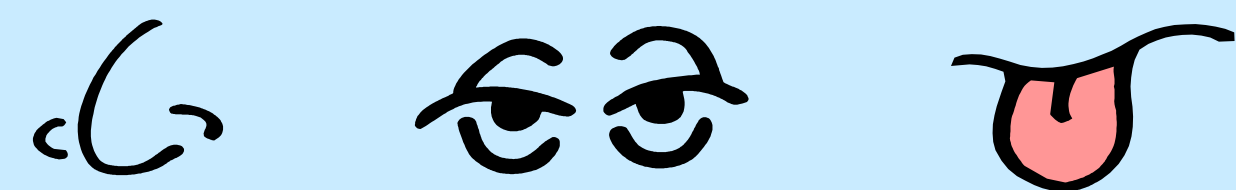
For 2 Hours Inhalation Duration The Symptoms Are :

<150 ppm	Slight depression - Tiredness - General Lethargy
280 ppm	Headache - Nausea - Sickness
450 ppm	Serious brain lesions - Coma
850 ppm	Danger of Death

Why CO Detection is so Indispensable

- Everyone using a fuel burning appliance is at risk from CO

CO is highly poisonous but:



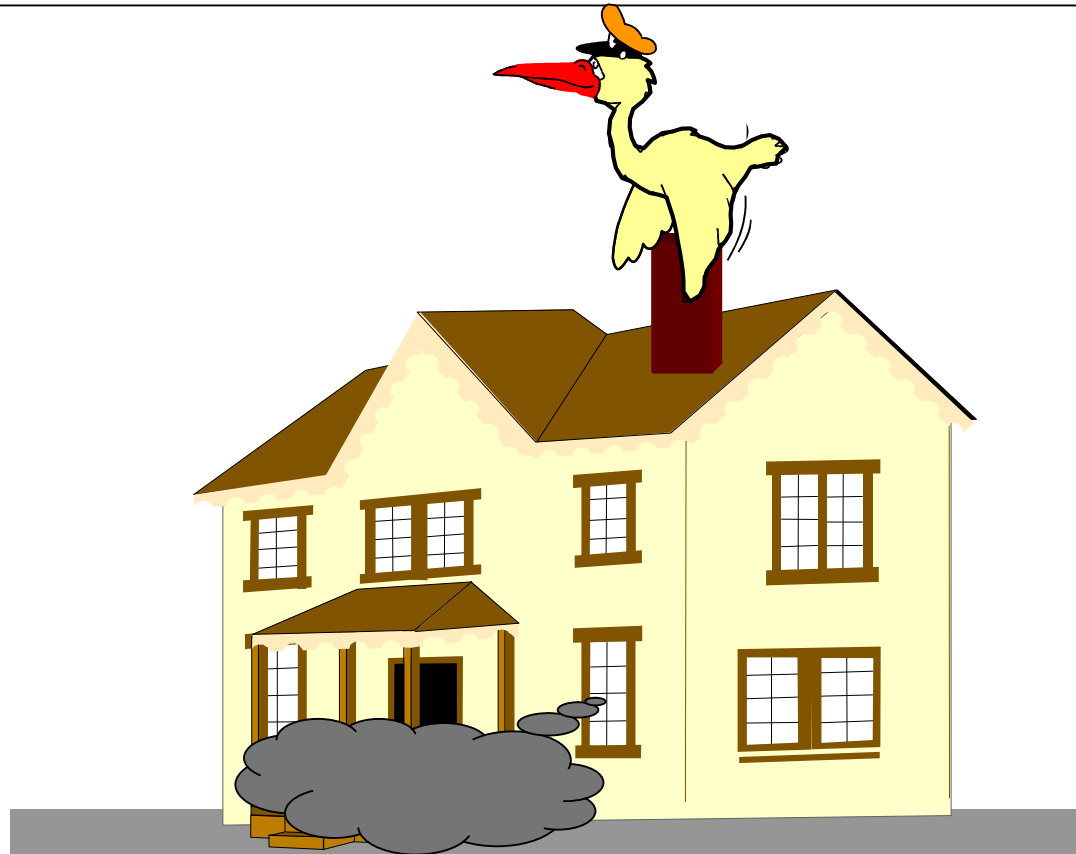
odourless **colourless** **tasteless**

- On a daily basis, a CO alarm is the only means to identify the presence of CO
- Even if all appliances are regularly serviced and all safety precautions are taken, there are always factors beyond your control which can cause CO leaks.....

Why CO Detection is so Indispensable

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Bird nests - Insect nests



Why CO Detection is so Indispensable

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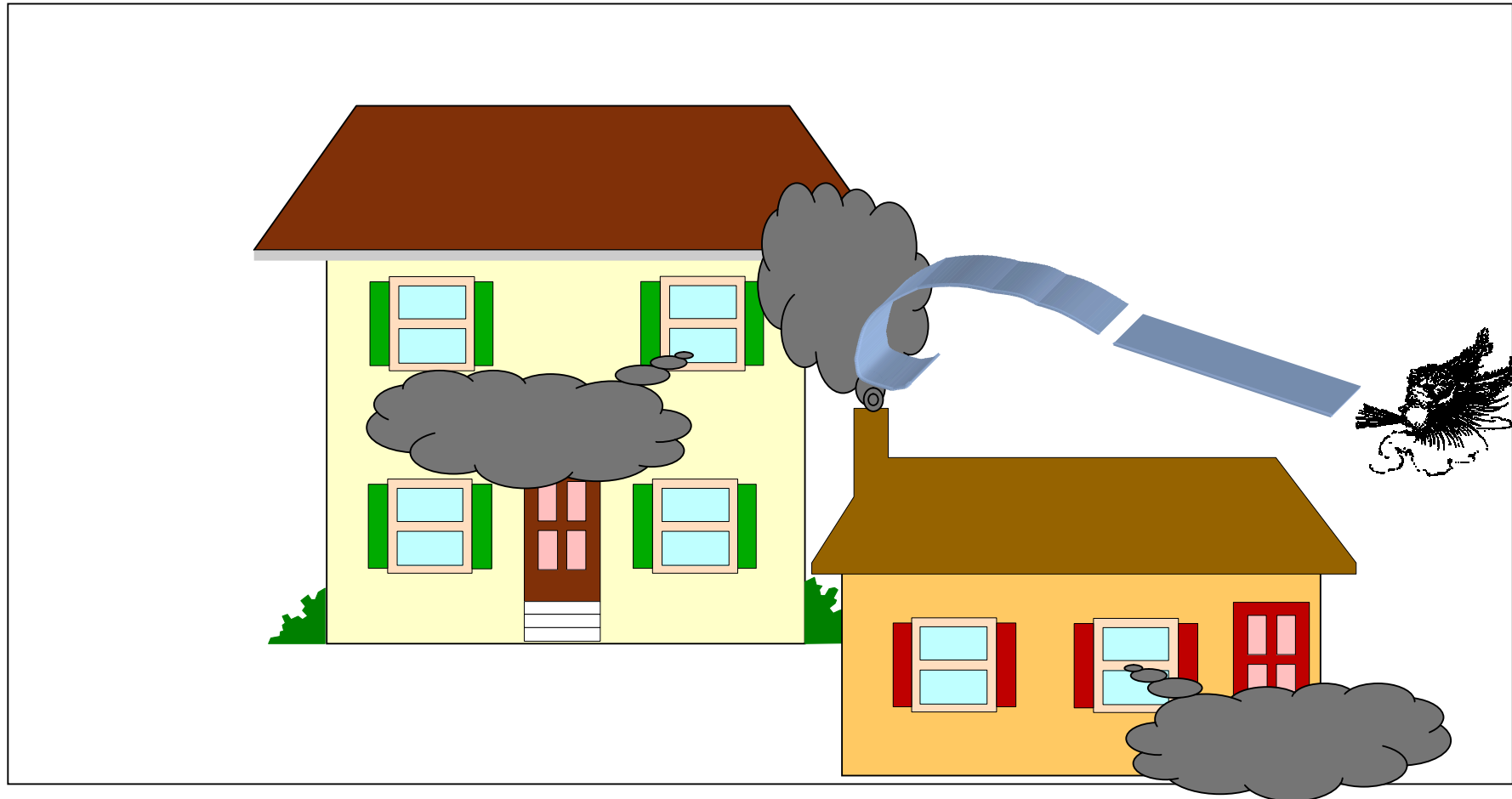
Adverse weather conditions



Why CO Detection is so Indispensable

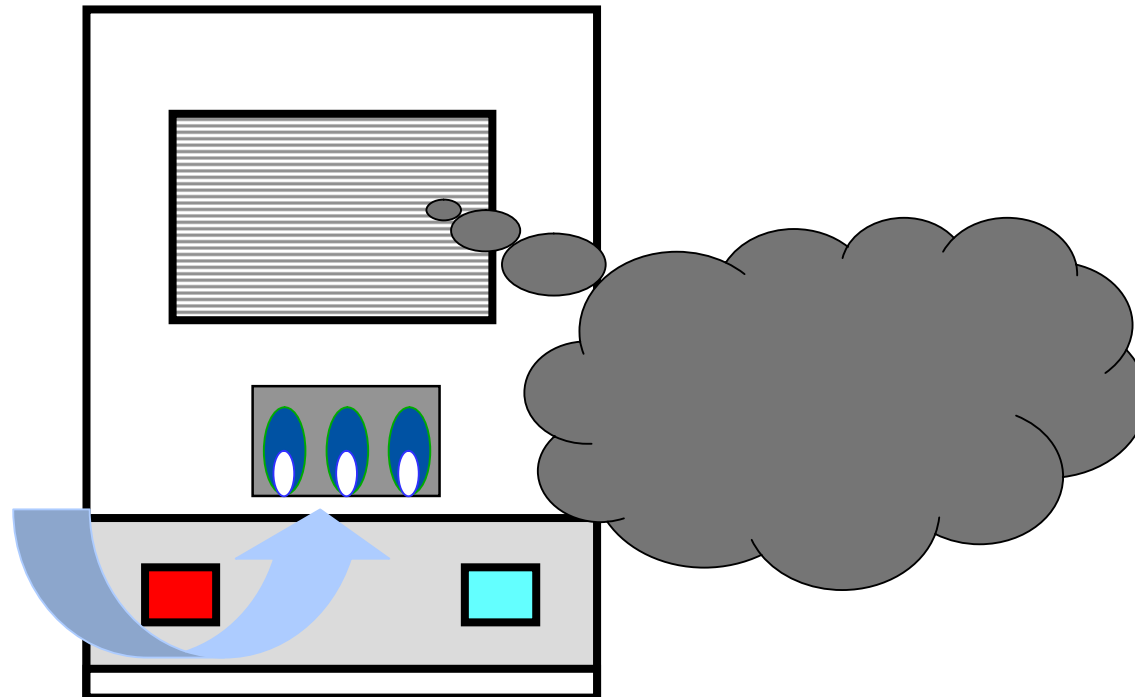
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Neighbourhood



Why CO Detection is so Indispensable

Appliances can simply break down in between service dates



Growing Awareness of the need for CO alarms

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- Media Coverage
 - Coverage on National News programmes (GMTV, BBC & ITV News...etc)
 - Major Story Lines in network TV programmes (Coronation Street, The Bill, Casualty ..etc)
 - National Press (accidents, deaths, injuries...etc)

10 THE SUNDAY POST/ December 3, 2000

Nine years after her parents were killed by carbon monoxide...

**Detector saved
Amanda from
deadly fumes**



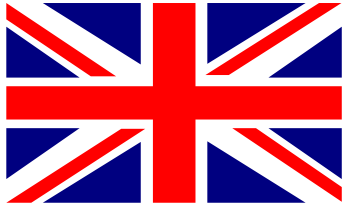
**FUMES KILL
DAD, WIFE
AND THEIR
GIRL OF 16**
Family trying to stay warm

- Seminars to professionals & general public
- DTI / HSE / CORGI / COCAA provide information on CO via leaflets and TV advertisements



UK Statistics – How Big is the Problem ?

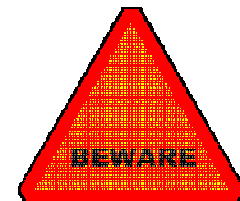
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- Nobody really knows
- There is a lot of discrepancy of the number of incidents reported in the UK
- HSE report 20-30 deaths per year, ROSPA report 100+ deaths per year
- Experts believe the real number is much higher
- Many incidents are not recognised as CO poisoning

Alarm Performance Standards

- The latest European Standard is EN50291 (now replaces all national standards including BS7860)
- Only the Kitemark confirms that the alarm has been:
 - Tested and approved by BSI
 - Manufactured using quality standards (ISO9001)
- Special certificates confirm award of the Kitemark and 3rd party approval to the standard
- Beware of non approved detectors, many of which may claim approval



Alarm Applications & Installation

- Applications
 - Everyone using a fuel burning appliance is at risk from CO
- Installation
 - Ideally, one alarm should be fitted in every room that contains a fuel burning appliance
 - EN50291 requires alarms to be fitted at least 6ft away from the appliance and within 12 inches from the ceiling
 - ◆ **CO is the same density as air but will initially rise with the warm air from the appliance**
 - ◆ **Alarms located at floor level may also become blocked by furniture**
 - ◆ **Alarms located too close to appliances may give nuisance alarms**

Commonly Asked Questions

- Why are CO alarms more expensive than smoke alarms ?
- How long do CO alarms last ?
- Why not choose colour change “Spot” detectors ?
- Why do I need CO alarms if my appliances are regularly serviced ?

Types of CO alarms

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- CO alarms can be battery or mains powered
- Some have replaceable batteries, some are maintenance free, sealed units
- CO alarms can be fixed or portable
- CO alarms can have relay outputs for linking to shut off valves or external control panels
- Important that all units used in the UK are officially approved and kitemarked
- A good quality CO alarm should come with a minimum 5 year guarantee

NOTE: Quality CO alarm sensors have a typical operational life of 5-7 years



Quality is Critical

- All CO alarms should be fully fully calibrated and tested in gas before they leave the factory
- All products must be manufactured in an ISO 9001 environment in order to achieve the EN50291 approval & kitemark
- Failure to do these things right puts lives at risk



Major Organisations using CO alarms

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- Majority of the main UK utility companies currently use domestic CO alarms for their customers (British Gas, npower, EDF, Southern Electric, Swalec, Scottish & Southern Energy...etc).
- An increasing number of UK councils and housing associations have fitted or are fitting domestic CO alarms



Major Organisations using CO alarms

- Some of these include :

- | | | |
|---------------------------------|---------------------------|-----------------------------|
| - Leicester City Council | Renfrewshire Council | Weslo Housing |
| - Greenwich Council | Glasgow Council | Midlothian Council |
| - London Borough of Merton | North Lanarkshire Council | Hillcrest Housing Assoc. |
| - Hillingdon Council | East Lothian Council | Winchester City Council |
| - Croydon Council | Clackmannanshire Council | South Northants Council |
| - Elmbridge Council | Fife Council | Warwick Council |
| - Westminster City Council | Perth & Kinross Council | South Kesteven Council |
| - Blaenau Gwent Council | Argyll & Bute Council | Kings Lynn & West Norfolk |
| - Cannock Chase Council | Moray Council | Angus Council |
| - Powys Council | Aberdeenshire Council | Ceredigion Council |
| - Aragon Housing Assoc. | Dundee Council | Inverclyde Council |
| - Nottingham Community Housing | Aberdeen Council | Cyngor Gwynedd Council |
| - Moorlands Housing Assoc. | Hackney Council | Fife Special Housing Assoc. |
| - East Lothian Housing Assoc. | Dane Housing Association | Kingdom Housing Assoc |
| - Link Housing Group | Gateshead Council | Shoreline Housing |
| - Suffolk Heritage Housing | Havebury Housing | Ealing Council |
| - Sovereign Housing Association | North Tyneside Council | Home Housing |

- All of these have installed over 1000 units and some in excess of 50,000 units

Summary

- CO is produced by the burning of any fossil fuel (gas, coal, wood, oil..etc)
- The only way to protect against the dangers 24hrs a day, 7 days a week is to fit a domestic CO alarm
- It is critical that any domestic CO alarm used is properly approved and kitemarked to the correct performance standards