tyco / Fire & Security

Improving

early warning

fire detection for all our customers

because you never know when...

a vital part of your world

tyco / Fire & Security

...fire will strike next

When will fire strike next?

Carbon Monoxide is a toxic gas produced by fires and responsible for a high proportion of fatalities.

For many years it has been known that Carbon Monoxide can be used as a means of providing early warning of fire. Only recently has research lead to the development of a commercial fire detector, using Carbon Monoxide. Carbon Monoxide is odourless, colourless and tasteless. Exposure to low levels for just 1-2 minutes can lead to permanent brain damage or death.

Slow developing and smouldering fires produce large quantities of Carbon Monoxide, before traditional detectable smoke aerosols and particulates escape from the fire.

In these situations, using Carbon Monoxide fire detectors detection occurs hours before ion-chamber or photo electric smoke detectors operate.

A wide range of applications

Smoke movement is constrained by convection currents created by the fire, whereas Carbon Monoxide being a gas is much more mobile than smoke and also moves by diffusion. This provides an advantage for a Carbon Monoxide fire detector allowing a higher tolerance on where the detectors can be located.

The Carbon Monoxide fire detector displays other advantages over ion-chamber and photo-electric smoke detectors in its immunity to false alarm sources such as steam from a shower or smoke from burnt toast.

Because of the characteristics of Carbon Monoxide detection, it is suitable for a wide range of applications and environments, and is especially appropriate to occupied areas where early warning for escape is essential.

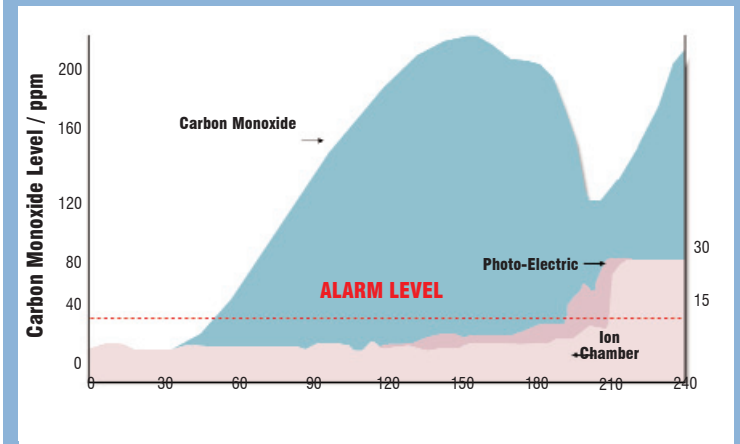
Typical applications for this type of detection include hospitals, schools, hotels, cruise liners, shops, warehouses and offices.

The new generation of Carbon Monoxide detector also incorporates a heat sensing element to give even further reliable and efficient detection of fire & smoke.

The benefits are clear

- **Superior Fire detection performance with slow burning and smouldering fires**
- **Suitable for a wide range of applications**
- **A major advance in the reduction of 'unwanted' alarms**
- **A real life saver for sleeping risk fires.**
- **Resistant to spurious alarm sources**
- **Compatible with existing fire controllers**
- **Detects the gas that is most life threatening before it reaches danger levels**
- **More tolerant mounting position**
- **Can be used where 'thermal barriers inhibit smoke movement**
- **Detects fires in adjacent rooms – aids means of escape clear**

A bed Fire started with a cigarette



For further information on how we can help you please visit our website at www.tycofis.com or e-mail us on tycofis@tycoint.com. The right is reserved to modify or withdraw any product or service without notice.

PSF100TFSS Issue 1 September 2006

a vital part of your world

tyco / Fire & Security