

DC999

Apollo Discovery CO Detector (58000-300)

General

The DC999 is an addressable, high performance carbon monoxide fire detector. It is particularly suitable for supplementing smoke detection when there is expected to be:

- > a deep seated smouldering fire risk
- > a risk of a fire starting in an enclosed space
- > a likelihood of stratification

Operating Principles

The DC999 contains a long-life electro-chemical CO sensor that is tolerant to low levels of common vapours and household products. The sensing technology is enhanced by a rate-of-rise response as fast rises in CO levels are often associated with hot fires. Detector algorithms remove nuisance alarms resulting from short-term, high CO levels caused by pipe smoke or gas flame ignition sources.

Applications

CO detectors do not detect smoke or heat, and are therefore not suitable as a replacement for smoke detectors.

The DC999 is very suitable as primary fire detector in areas where the main risk is a smouldering fire, where optical detectors are deemed unsuitable due to nuisance alarm situations occurring regularly, or where the fire compartment is less than 50m².

Typical applications include hotel bedrooms, halls of residences sheltered accommodation or hospital wards.

Nuisance Alarms

CO Detectors are less susceptible than smoke detectors to nuisance alarms from sources such as toast, cooking, plumbing work or hair spray. They are more susceptible to problems in areas with vehicle exhausts, open fires and gas appliances.



Details

- Early warning of carbon based smouldering fires
- Resistance to nuisance alarms in areas with high levels of steam and other airborne particles
- Ideal for protecting small volume sleeping areas
- Resistance to contamination in dirty and dusty conditions
- Excellent supplement to fire detection systems to improve detection of smouldering hydrocarbon fires

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Technical specifications

Electrical

Operating voltage	17 to 28 VDC
Supply voltage	17 - 28 VDC
Communication voltage (peak to peak)	5 - 9 V
Quiescent current	300 μ A
Alarm current	3.5 mA
Remote LED output	< 5 mA

Physical

Physical dimensions	42 x 100 mm
Net weight	105 g
Colour	White
Material	Polycarbonate
Size (h x \varnothing)	42 x 100 mm
Weight	105g
Colour	White
Material	Polycarbonate

Environmental

Operating temperature	0 to +50°C
Storage temperature	-10 to +30°C
Relative humidity	15 to 90% noncondensing
Environment	Indoor
IP rating	IP54
Normal operating temperature (no icing)	0°C to +50°C
Storage temperature	10°C to +30°C
Rel. humidity (no condensation)	15-90 %
Max. wind (continuous)	Not affected
IP rating	IP54

Alarm indication

2 Red LEDs

Cell life

< 7 years

