

Gas management

Why is Gas Management important?

The use of gas and solid fuel appliances can present significant issues for many vulnerable people wanting to live independently, therefore it is essential that these potential issues are managed both comprehensively and efficiently.

Carbon monoxide alone is a potentially lethal gas emitted by faulty gas and solid fuel appliances such as boilers or fires and is odourless, colourless and tasteless, which makes it very difficult to detect. On average there are over 200 reported casualty admissions and one person dies every week as a result of carbon monoxide poisoning, highlighting the importance of detecting the build up of potentially fatal emissions at an early stage to enable preventative action to be taken.

What is a Gas Management Solution?

The Gas Management Solution provides a safe and effective method of protecting people against the risks associated with using gas and solid fuel appliances in the home 24 hours a day, 365 days a year, allowing people to remain at home for longer.

The following telecare sensors can be used to form a Gas Management Solution:

- Natural Gas Detector
- Gas Shut-Off Valve
- Gas Shut Off with Bayonet Valve
- Carbon Monoxide Alarm



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How does it work?

At the heart of the solution is either a Lifeline home unit or a Tunstall telecare enabled system, which monitors all the telecare sensors within the solution. Once the natural gas detector senses leaking gas in the home it will automatically activate the shutoff valve cutting off the gas supply to the property or the individual appliance immediately. In addition, a call will be raised to the scheme manager or 24 hour monitoring centre, where client and call type information is provided. Two way speech is then established, allowing the situation to be ascertained and the most appropriate action to be taken.

Once the source of the leak has been properly investigated, the gas supply can be easily reinstated by simply using a key switch on the gas valve controller in the home.

The solution can also be complemented by a Carbon Monoxide Alarm which will automatically raise a call when potentially dangerous levels of Carbon Monoxide gas are detected in the home.

Who is it for?

The Gas Management Solution is ideal for:

- Elderly, infirm or disabled people
- People with medical conditions such as dementia, epilepsy or diabetes
- Households with young children

What is a Natural Gas Detector?

The Natural Gas Detector offers additional peace of mind for both the client and their carers. It raises an alarm call to the monitoring centre the moment the leakage of gas is detected, allowing the appropriate corrective action to be taken.

What is a Gas Shut Off Valve?

The Gas Shut Off Valve, working in conjunction with the gas valve controller and Natural Gas Detector, will automatically turn off the gas supply to the property or individual appliance should dangerous levels of gas be detected. In addition, the gas valve controller will also automatically raise an alarm in order to enable the most appropriate action to be taken. The gas supply can easily be reinstated once the situation has been resolved using the key switch.

What is a Carbon Monoxide Alarm?

The Carbon Monoxide Alarm provides an immediate alert when dangerous CO emissions have been detected due to a blocked flue or fault in a fuel burning appliance, raising an alarm call to a scheme manager or monitoring centre. The alarm will provide repeated detection without needing to be replaced and has a sealed battery with a 7 year life. The memory function records the last CO alarm level, and the alarm also features a Test/Hush button. The alarm is the first to be officially approved and kite marked to the latest European standard for domestic Carbon Monoxide alarms, EN50291.

Why choose a Gas Management Solution?

The Gas Management Solution is essential for clients who suffer from short-term memory loss and rely on the continued use of gas appliances, providing constant reassurance to the service users and those who care for them.

The solution provides high levels of protection against unlit gas taps being left on or the hazardous build-up of carbon monoxide thus effectively managing a potentially serious risk for many clients who live independently. The solution also protects property by ensuring a swift reaction to dangerous levels of gas, 24 hours a day whether the dwelling is occupied or not.

Features & benefits

- **Transmission to Class 1 radio receiver** - ensuring that signals from the sensors are received for ultimate reliability, essential where life critical solutions are used.
- **Flexibility** - the solution can be tailored to meet the needs of individual clients in order to provide high levels of practicality and protection against the effects of a gas leak.
- **Easy on site re-instatement of the gas** - supply to a property or appliance can be easily re-instated once the source of the leak has been identified and rectified.
- **Comprehensive Gas Management Solution** - providing 24 hours a day, 365 days a year protection for ultimate gas management.



Technical details

Standards

EMC:	EN55022: 1998, ETSI EN301-489-1:(2000-08) Class 1
Safety:	EN60950:2000
Radio:	ETSI EN 300 220-3:2
CE:	Compliant
Social alarm:	EN50130-4:1995 + A1:1998

Design, Manufacture,
Installation and Service: ISO9001: 2000

Gas Shut Off Valve*

Weight:	450g
Dimensions:	57 x 160 x 80 (HxWxD)
Power:	220/240v
Operating Temp Range:	-5°C to +40°C
Specific Standards:	Gas Valve- EN161

Part numbers:

Control Unit- EN60950
(includes natural gas
detector, ROM, control
unit and gas shut off
valve):-
iGS803- Suitable for
use with 1/2" gas pipes
iGS804- Suitable for
use with 3/4" gas pipes
iGS805- Suitable for
use with 1" gas pipes

Gas Shut Off with Bayonet Valve* Gas Valve Controller

Weight:	560g
Dimensions:	107 x 148 x 57mm (HxWxD)
Range:	Up to 50 metres (typical)
Radio Battery Life:	5 years

Bayonet Gas Valve

Weight:	735g
Dimensions:	140mm x 115mm x 45mm (HxWxD)
Part numbers:	GS829 (includes Natural Gas Detector, Gas Valve Controller and Bayonet Gas Valve)

Natural Gas Detector (plug in)

Weight:	370g
Dimensions:	75 x 155 x 42mm (HxWxD)
Power:	230v 50/60Hz
Operating Temp Range:	-10°C to +45°C
Specific Standards:	EN 50194:2000
Detector Life:	Up to 5 years
Part numbers:	41005/40

Carbon Monoxide Alarm

Weight:	178g
Dimensions:	40 x 120 x 105mm (HxWxD)
Radio frequency:	869.2125MHz
Radio Range:	Up to 50 metres (typical)
Power:	Sealed lithium battery
Radio Battery life:	Up to 7 years
Operating Temp Range:	-10°C to +55°C
Detector Life:	7 years
Specific Standards:	EN 50291:2010
Part numbers:	68005/98

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