

Natural Gas Detection and Protection for Households (Corgi-free installation)

Protection for cookers, fires and other gas appliances



Natural gas risks

Natural gas is one of the safest forms of energy in use today. This is why it is used in households. However it is possible to cause problems through:

- mistakes such as forgetting to light a gas ring or
- natural causes like a pilot light blowing out

This becomes a bigger problem where there are confused, elderly or infirm people who may be less aware of what is going on around them.

In the worse case, escaping gas from appliance misuse can build up to dangerous levels which can result in explosions.

The Amos 580 Natural Gas Detector provides two key functions:

- it detects escapes long before the gas reaches unsafe levels,
- it actively prevents danger by shutting off the gas supply to the appliance

Easy installation

The detector / controller require simple electrical installation. Due to its easy-fit bayonet connection, the valve can be installed by the electrician installing the detector. The valve is just connected in line with the appliance using the existing bayonet connection. A Corgi registered gas fitter is not required.

Where can the detector be used?

The detector is specially designed for all household situations. In particular where appliances may be left unattended or there is a risk of gas flames blowing out or being forgotten to be lit. It is mainly used for gas cookers but also can be used to protect fires and other gas appliances.

The detector and valve are often used as part of a Telecare home safety system.



Domestic & Commercial Gas Detection Systems

How it works

A simple gas detector (similar in size and operation to a smoke detector) is sited above the gas appliance. When gas escapes, it is detected well within the recommended safety margin.

When gas is detected a red warning light comes on and an alarm sounds. Remote alarms can also be triggered.

The easy-fit cut off valve then automatically switches off the gas supply to the appliance, making the situation safe.

When the gas has dispersed the gas can be reconnected either automatically, when a button is pushed or only when a key is inserted. This last option allows only selected people to reconnect the gas. It does not require Corgi approval to re-connect the gas supply.

Using the detector / valve ensures that dangerous build ups of gas cannot occur.

Specification

Detector / controller

Alarm trigger level:

Between 5% and 20% of Lower Explosive Limit (LEL)

Safety margin: 80%

Alarm: Red warning light.

Audible sounder, 85 dB at 3 m (can be disabled)

Outputs: 2 relays, one for valve control and one for remote signalling (Volt free)

Alarm reset: Automatic or push button or key switch when gas has cleared

Power: 240v ac (2 feeds required)

Expected life: 5 years

Model number: A580

Installation: 2 pattress boxes

Shut off valve

Connection: In line bayonet fitting

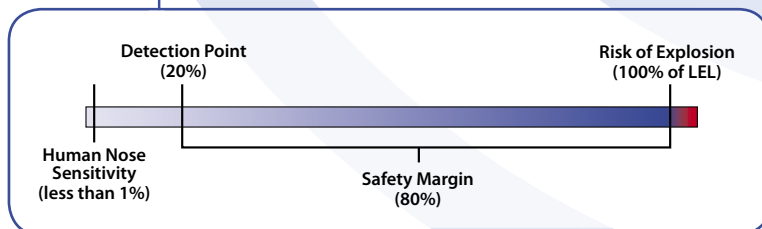
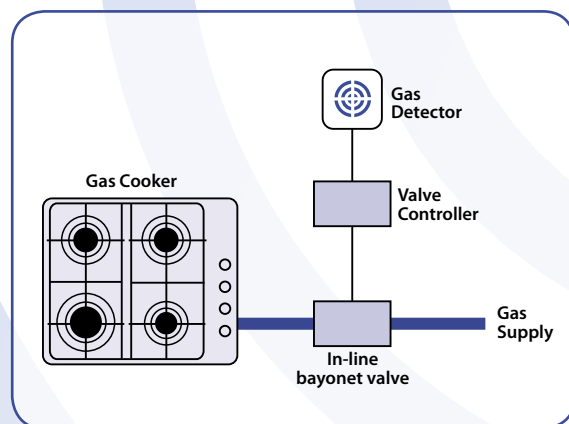
(CORGI registered gas fitter not required for bayonet fitting)

Power consumption: Zero in normal operation, momentary on switching

Certification: EN 13611:2000

(Safety and control devices for gas-burning appliances)

Installation



Amos gas detectors have been used for many years in a wide range of applications where gas presents a risk to life or property. Our extensive experience in detector design and manufacture has made us the detector of choice for many councils, companies and housing associations.

Living Safely with Gas



AMOS Detection Limited

Unit 6, Sovereign Park
Laporte Way, Luton
Beds LU4 8EL

Telephone: 01582 506130

Fax: 01582 506124

email: enquiries@amos.uk.com

www.amos.uk.com

Manufactured by Ruston Electronics Ltd an ISO 9001:2000 Approved Company.

The content of this document is subject to change and may not be used as part of a contract.