

If the alarm sounds, **DO NOT ENTER** the contaminated area. If the unit does not react, the area is free from any of the gasses it is able to detect.

Switch the unit **OFF**, then **remove the aspirator** and place in the carry case.

You can now switch the unit **ON** again, in a non-hazardous area and wait until the unit has passed its self-test. The display will again ask "are you in clean air?", you should now press the button below the 'YES' on the display (the ON button).

If one of the three gasses is detected in the atmosphere or the level of Oxygen drops, the alarm will sound. The alarm LED flashes, the back light comes on and the word 'ALARM' flashes on the display next to the gas in question. If the alarm sounds, evacuate all personnel from the contaminated area.

## EQUIPMENT CARE

Never push the equipment beyond its design limits. If it is unsuitable for the task you are performing **DO NOT USE OR RELY ON IT**. Contact your local HSS Safe and Sure Depot for advice.

Handle the equipment with care. Avoid dropping it, knocking it, or otherwise exposing it to damage.

Never expose the equipment to excessive moisture, dust or dangerous/corrosive chemicals.

Keep the equipment clean. You will find this less of a chore if you clean up regularly rather than wait until the end of the hire period.

When not in use, remember to switch OFF, then store the unit somewhere clean, dry and safe from thieves.

## FINISHING OFF

Switch the unit **OFF**, then collect together the charger and aspirator.

Place all parts in the carry case provided ready for return, to your local HSS Safe and Sure Depot.

## Cleaning

The hirer has a duty of care to ensure the equipment is returned clean of any potentially harmful contaminants or body fluids.

HSS may refuse to accept equipment that has not been suitably cleaned.



## ...any comments?

If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below

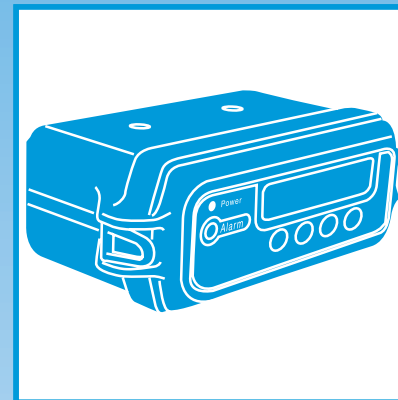
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**HSS** **Safe & Sure**  
SAFETY & SURVEY EQUIPMENT HIRE



# Triple Plus + Personal Gas Detector

A gas detector designed to detect the presence of Methane, Hydrogen Sulphide and Carbon Monoxide and monitor Oxygen Deficiency.



Code 34072

## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Safe and Sure Depot.

There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.

This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment may be used in a workplace subject to a permit to work, it is the hirer's responsibility to ensure that the equipment's technical specification meets the requirements of any such permit to work prior to starting work. For further technical information contact your local HSS Safe and Sure Depot.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using either cones, barriers or tape, available for hire from your local HSS Safe and Sure Depot.

Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

Wear sensible, suitably protective clothing and footwear plus any safety wear appropriate to the work in progress.

Make sure you know how to operate this equipment safely and are aware of its limitations before you use it.

Remember that this equipment does not guarantee life protection but if used correctly it will help provide a safer environment to work in.

Make sure that everyone is warned of what you are doing.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Safe and Sure Depot.

## GETTING STARTED

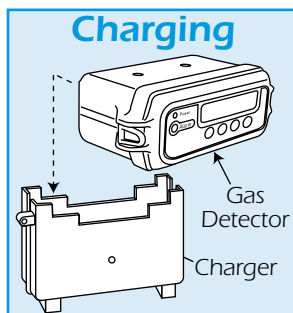
The battery charger is designed to plug straight into a standard 230V 13amp power supply.

Using electrical equipment in very damp or wet conditions can be dangerous.

To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from your local HSS Safe and Sure Depot.

The battery is an integral part of the unit and will last approximately 12 hours in normal use.

The gas detector battery must only be re-charged indoors and in a NON HAZARDOUS ENVIRONMENT.



To charge the battery, simply insert the unit into the charger (see illustration), ensuring the unit is the correct way up.

Plug the charger into a suitable power supply and switch the supply ON.

Charging is fully automatic and the battery should be fully charged in

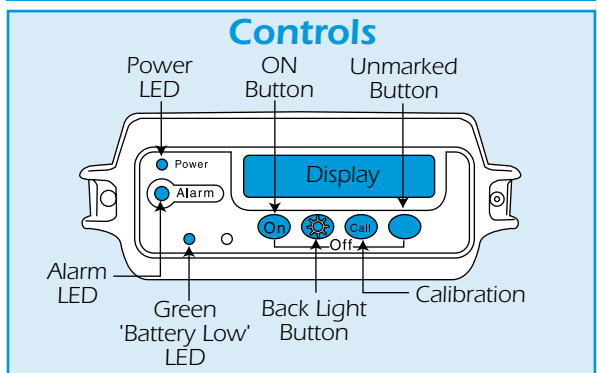
approximately four to six hours depending on battery condition.

Only use the charger supplied, any other type of charger may cause the battery to explode.

If an extension lead is used for the charger it should be fully unwound and loosely coiled, away from the equipment. Never run leads through water, over sharp edges or where they could trip someone.

Never carry or pull the charger by its power supply cable.

## GETTING STARTED



Switch the unit ON by pressing the ON button. The alarm will sound and the red 'alarm' LED will flash momentarily.

The unit will then perform a self-test and will display the current battery condition. The battery voltage must read above 5.8V, if it reads lower, recharge the unit (see 'ELECTRICAL SAFETY').

During the self-test, if the unit has passed its due date for re-calibration, 'Calibration due' will show on the display, the red LED will flash and the alarm will sound.

If the words 'Sensors Changed' appear on the display, one or more of the sensor modules may have a fault.

If either warnings occur, DO NOT USE OR RELY ON IT, contact your local HSS Safe and Sure Depot for a replacement unit.

There is a backlight facility, which will illuminate the display in situations where the lighting is not very good. To operate the backlight press the 'backlight' (sun emblem) button, press again to turn the light OFF.

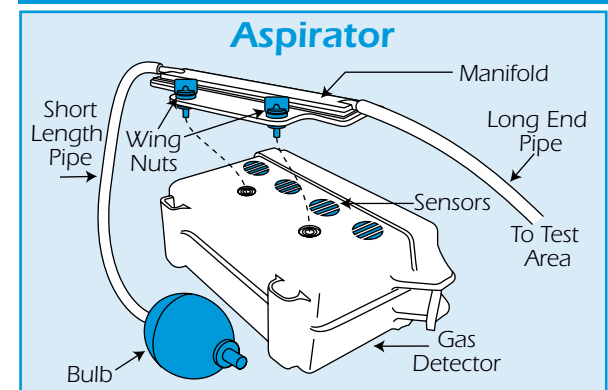
The back light feature comes ON automatically in the event of an alarm.

During use, the power LED will flash. If the battery power drops to a low level, the power LED will flash at a quicker rate and the unit will emit a beep.

If this happens, evacuate the area of all personnel and arrange re-charging (see 'ELECTRICAL SAFETY').

To switch the gas detector OFF press both the ON button and the blank button (see illustration) at the same time.

## BASIC TECHNIQUES



The unit is supplied with an aspirator, used to test an area prior to entry.

Securely attach the aspirator manifold to the top of the unit, aligning the two securing wing nuts to the threads so that the manifold covers the sensors.

Make sure the long end pipe is fitted to one end of the aspirator and the bulb with a short length of pipe to the other. When activated, air is drawn in to the long end pipe, over the sensors and out through the bulb.

Switch the unit ON in a non-hazardous area and wait until the unit has passed its self-test.

The display will then ask "are you in clean air?", you should now press the button below the 'YES' on the display (the ON button).

Insert the aspirator long end pipe into the work area then squeeze and release the bulb a minimum of 20 times.

If one of the three gasses is detected in the atmosphere or the level of Oxygen drops, the alarm will sound. The alarm LED flashes, the backlight comes on and the word 'ALARM' flashes on the display next to the gas in question.