



Instrument Maintenance

SOCOTEC's instrument maintenance department has a wealth of experience and skills dating back over 40 years.

SOCOTEC's team design, build, maintain and service bespoke gas monitoring systems to ensure compliance with the most stringent regulations and have experience working with gas monitoring systems used for gas generation plants. We routinely service MSA, Gas Data, Crowcon, Draeger and other manufacturer's gas monitors.

SOCOTEC's instrument maintenance team provides a service and repair centre for Gas Data Ltd's multigas instruments. We are also a 'channel partner', authorised distributor and service centre for MSA Safety Ltd instruments and equipment.

Training

As part of our agreement with MSA, SOCOTEC is authorised to train staff in the use, operation and maintenance of MSA self-rescuer units. Other training includes the use and operation of multi-gas equipment and sample pumps.

Servicing

Specialising in servicing portable multi-gas instruments, we work to a maximum of a 10 working day turnaround time from receipt of the instrument to its shipping, ensuring that you have your instrument returned to you as soon as possible. For long-term hire, SOCOTEC will also ensure that all calibration certificates are kept up to date and notify you when the next service and calibration is due.

Repairs

SOCOTEC's thorough inspections of instruments can help clients to identify the cause of the fault. A turnaround time can then be offered, dependant on the repair work needed.

Quality Control

Operating under our ISO - 9001:2015 - quality management system, all our servicing equipment is traceable to international standards. We also have access to UKAS accredited laboratories and instruments*.

* A listing of SOCOTEC's UKAS accredited activities can be found in our schedule of accreditation - Testing Laboratory 1015 – at socotec.co.uk

EQUIPMENT - GAS MONITORING

Landfill Monitoring System (LMS)

The LMS is manufactured by SOCOTEC's partners at Gas Data. Each instrument comes equipped with sensors to detect methane, carbon dioxide and oxygen as standard, though we have a range of other sensors available. These systems can be left to data log for up to a week or be used to collect live data from sites. Other options available are differential pressure and borehole flow monitoring.

Gas Field Monitor (GFM)

A smaller but just as reliable and robust newer version of the standard LMS monitor, the GFM gives all the benefits of the LMS but in a hand-held version. The GFM comes as standard with methane, carbon dioxide and oxygen detectors fitted and can be enhanced with up to three additional toxic sensors plus flow.

ALTAIR 4 / 4X

The ALTAIR 4X is a durable, reliable and easy to use multigas detector. It measures up to four gases with oxygen, carbon monoxide and combustibles as standard, and a choice of hydrogen sulphide, sulphur dioxide and nitrogen dioxide as optional sensor units.

ALTAIR 4XR

The ALTAIR 4XR is an upgrade to the 4X, providing real-time incident awareness to team members, supervisors, safety managers and others when paired with the MSA ALTAIR Connect app via a Bluetooth wireless connection. Readings can be taken from off site or from a safe distance. During vertical entry into enclosed spaces, an ALTAIR 4XR can be lowered into the opening and real-time data can be monitored to give a representation of the gases at different levels in the space.

ALTAIR 5X

The ALTAIR 5X multigas detector offers a combination of up to six gases, including combustible gases, oxygen, and toxic gas detection.

Features include:

- Rugged polycarbonate housing for durability
- Field proven integral pump for consistent gas flow without the problems of externally attached components
- Ergonomic design
- Glove-friendly buttons
- A high contrast display

W65-2 / W95 Filter Self Rescuers

The MSA W65-2 and W95 are filter self-rescuers for use in emergency situations underground following fire or explosion. These are designed to remove toxic carbon monoxide gas from the inhaled air and convert it to safer carbon dioxide. The smaller W95 was the UK coal mine standard self-rescuer, designed to operate for up to four hours, while the slightly heavier W65-2 unit operates for up to two hours. Both are compliant with EN404 with regard to filter self-rescuers.

SSR30 / 100 / SavOx SC Self-Rescuers

The MSA SSR30 / 100 and SavOx are self-contained, oxygen generating, self-rescuers for use in situations where a deficiency of oxygen in the breathable atmosphere may be encountered. These units are also known as "re-breathers". They operate by the moisture and carbon dioxide in the user's breath being captured by a chemical reaction, which liberates oxygen from a strong oxidiser chemical (potassium super-oxide). The user's breath is contained within a rubber bag and the exhaled air passes through a cartridge containing potassium super-oxide. This chemically releases oxygen into the exhaled breath within the breathing bag and is "re-breathed" as oxygen enriched exhaled air, thereby promoting life.

The major difference between the SSR30 / 100 and the SavOx unit is that the SavOx has a starter chemical which gives an immediate oxygen enrichment and increased volume at start up. Both are compliant with EN13794.

EQUIPMENT - DUST MONITORING

TOPAS Units

A TOPAS unit is a (preferably) mains powered, continual dust monitoring instrument which can display real-time results in total dust, PM10, PM2.5 and PM1 fractions in $\mu\text{g} / \text{m}^3$.

Features include:

- Alarms to email whoever is required once pre-determined and pre-agreed dust levels are triggered
- Web based results
- A data report

The TOPAS unit can be supplied with a wind gauge / weather station when hired.

Continual Dust Monitoring Instruments - DustMate Units and Osiris Units

Features include:

- Real-time results in total dust, PM10, PM2.5 and PM1 fractions in $\mu\text{g} / \text{m}^3$
- A hand-held battery powered unit
- A datalog facility - records results in selectable one to 15 minute intervals
- Downloadable results to Microsoft Excel

The Osiris unit can be used either indoors or outside with the option of a weatherproof enclosure.

Casella Apex Pump and Tuff Pump

The Apex pump is an easily usable pump designed for air sampling at up to three litres per minute. Using supplied filter housings and filters or adsorption tubes, various environmental sampling tasks can be undertaken. SOCOTEC maintains, calibrates and repairs the pumps in-house using in-house processes covered by ISO 9000:2015 accredited procedures.

The Tuff pump is an underground intrinsically safe group 1M1 approved pump based on the successful Apex pump. It performs the same functions as an Apex pump but within the intrinsically safe equipment requirement of a hazardous environment. Again all pumps are maintained, serviced, repaired and calibrated in-house.



FOR MORE INFORMATION

For more information or advice on the best service for you, please call 0845 603 2112 or email salesuk@socotec.com