



# Sirius™ Multigas Detector

[ One PID, Four Gases...Detects Hundreds of Chemicals ]



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*You requested a PID in a multi-gas unit that is reliable, easy to use and durable. You wanted a combination instrument to depend on to make your job easier and give you the assurance you need when monitoring for hundreds of potentially dangerous vapors and chemicals.*

**MSA has listened. The Sirius Multigas Detector provides the solution you have looked for in one complete package; incredible performance, simplicity, and durable design all with MSA's commitment to quality.**

## Hazards

First Responder  
Hazmat Response  
Fire Service  
Petrochemical  
Petroleum and Refining  
Chemical  
Aviation  
Marine  
Utilities  
General Industry

## Applications

Homeland Security  
Confined Space  
Leak Detection  
Perimeter Monitoring  
Spill Delineation  
Remediation  
Arson Investigation  
Determining the Level of Personal Protective Equipment  
Decontamination  
Diesel fuel TLV Monitoring

## Tremendous Flexibility

*One PID and four gases in one instrument allows for detection of hundreds of chemicals.*



The Sirius Multigas Detector provides users outstanding multifunctional capabilities by integrating a high-performance PID (Photoionization Detector) sensor into a 4-gas detector. Users are able to simultaneously monitor for volatile organic compounds (VOCs) with low vapor pressures while measuring for combustible, toxic and oxygen-deficient atmospheres within one reliable, easy-to-use, durable unit.

## Reliable PID Performance

MSA's own proprietary PID sensor design (patent-pending) provides users with excellent PID performance including humidity resistance, stable zero readings, and fast response and clear times to enable users to get their jobs done dependably.

## User-Friendly Software

*Easy-to-use software allows users to focus on their tasks at hand!*

Reading measurements for combustible gas, CO, H<sub>2</sub>S, O<sub>2</sub> and VOCs with their character names are clearly and simultaneously exhibited on the display. A noticeably visible battery life indicator is also continuously displayed to inform users of the remaining run time on the unit.



When measuring for general VOCs with isobutylene as the reference gas, users can easily read the chemical name "isobutyl" in a designated dashboard on the display. When a known gas is

present, it is easy to obtain a direct reading measurement for that known gas by using an automatically calculated corresponding response factor to isobutylene, which is pre-programmed into the Sirius unit. Eight alpha characters clearly spell out the VOC gas of choice selected by the user in the dashboard display area.

The Sirius unit automatically calculates response factors by easily scrolling through a “favorite-five” list or by selecting a gas from a 100 gas pre-programmed list. Customized chemical names and corresponding response factors can also be easily added to the list.

A user-selectable option to enable ppb VOC readings below 10 ppm is also available, giving users added flexibility for their VOC monitoring needs.

## Superior, Proprietary PID Sensor Design

*Superior PID sensor design reduces maintenance time and cost!*



PID lamp access is made easy with the Sirius unit. When users need to change or clean a PID lamp, it is so simple with a twist of the lamp holder located conveniently on the front of the instrument. Color-coded lamp eV

ratings for easy lamp discrimination also adds to the ease of changing lamps. Two lamps are available; a red color labeled 9.8 eV lamp for more discrimination and a green color labeled 10.6 eV lamp used for most VOCs. A tamper-proof version of the PID lamp cover is also available.



Any future maintenance of the ionization chamber is also simple and can be done easily at the customer's location. An easy-to-access

ionization chamber is simply removed, disposed of and replaced.

## Flexible Configurations

*This design combines two instruments into one!*

The Sirius unit can be used with or without the PID sensor mode. When only a 4-gas detector is needed, users can select to turn off VOC readings, allowing users to have a built in capability for confined space monitoring. If a PID sensor is in the future for a customer, but not presently needed, a PID sensor can be simply added to the unit at a later time.

## Loud, Attention-Grabbing Alarm

*The Sirius Multigas Detector provides outstanding alarms to clearly warn users of a hazardous situation!*



A piercing alarm horn, resonating through a specially designed horn chamber, is designed into

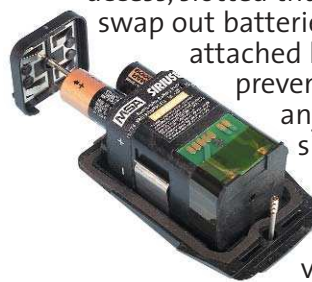
the Sirius unit to give users an audible warning in the event of an alarm condition.

Multidirectional bright LED lights give users visible warning of alarm conditions that can be easily seen from any direction the Sirius unit is facing. A “Safe LED” light gives users confidence the unit is actively detecting gas by flashing every 15 seconds.

## Interchangeable Lithium-ion and Alkaline Battery Packs

*Keep instruments running 24 hours a day, 7 days a week!*

A unique, user-friendly design for the alkaline battery pack provides users with a simple-to-access, slotted thumb screw to easily swap out batteries in the field. An attached lid to the alkaline pack prevents users from losing any parts while at a work site.



A lithium ion battery pack with optional vehicle charger is easily interchangeable with the alkaline battery pack. Charging the lithium ion battery pack can be done in the unit or



and ready to take action.

## Easy Calibration and Compatibility with MSA's Total Instrument Manager

*Increase user safety by easily ensuring proper sensor performance!*

One-button calibration makes calibration simple for any user. Intelligent software frees users from complicated calibration adjustments. The Sirius Multigas Detector is also compatible with MSA's Total Instrument Manager for automated calibration and record keeping.

## Long-Term Storage Kit

*In case of emergency, users can be confident they have what it takes to ensure their Sirius unit is working properly and will be ready to go!*

When emergency response conditions may arise, the long term storage kit provides all the tools necessary to keep the Sirius Multigas Detector running if the unit has not been frequently used. The long term kit includes a premium storage case, Sirius Multigas Detector with combustible, H<sub>2</sub>S, CO, O<sub>2</sub> and PID sensors, calibration cylinders, spare sensors with hermetically-sealed O<sub>2</sub> sensor to last two years, spare PID lamp, lamp cleaning kit, extra PID ionization chamber, both alkaline and rechargeable lithium ion battery packs, and vehicle charger. A pictorial of how to quick start the unit is also attached to the lid of the case to help users easily understand how to ensure the safe starting operation of the unit if they have not recently used the Sirius Multigas Detector.

**The Sirius Multigas Detector unit with PID Sensor gives users all they are looking for in a reliable, easy-to-use, durable package to detect volatile organic compounds, while measuring for combustible, toxic and oxygen deficient atmospheres. This Stellar® instrument is a great addition to the family of multigas and single gas detectors!**



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