

SOLARIS® Multigas Detector

Includes the *NEW* Solaris Multigas Detector with Alkaline Batteries
and the Solaris FX Multigas Detector





Small, light and portable multigas detector for O₂, H₂S, CO and combustible gas. User-modified instrument functions include alarm set points, calibration gas values and industrial hygiene functions. Visual, audible and vibrating alarms standard. Rated to IP 65 for dust and water ingress. Rechargeable lithium-ion and alkaline battery versions available.

A reliable, versatile and economical multigas detector. It's right in the palm of your hand.

An outstanding choice for individual worker safety, the Solaris® Multigas Detector is an affordable, durable, reliable, and easy-to-use portable instrument for detecting the presence of O₂, H₂S, CO and combustible gas. It is designed to withstand rough handling in harsh environments and delivers MSA's commitment to quality in a small size at a small price. The Solaris Multigas Detector is ergonomically designed and provides the best value in its class. At a low, competitive cost, it provides state-of-the-art engineering, a wide array of features, weighs less than eight ounces and fits in the palm of your hand.

The Solaris Multigas Detector is available with rechargeable lithium ion or alkaline battery packs. The rechargeable lithium ion battery version offers 14+ hours of continuous operation and fully recharges in less than four hours. The alkaline battery version operates for 12+ hours using three AA batteries within easy-access housing.

The Solaris FX Multigas Detector is ideal for chemical and petrochemical applications. Its improved LEL sensor has faster response and release times for toluene, xylene and other aromatic hydrocarbons. MSHA-Approved methane-calibrated Solaris Multigas Detectors are the right choice for mining applications.

- Four-in-one gas detector displays all gas readings simultaneously
- Small and lightweight unit can be comfortably worn all day
- Rubberized armor casing offers protection from accidental impact
- IP 65 rating ensures reliable performance in harsh environments
- Triple alarm system provides visual, audible and vibrating alarms as standard features
- User configuration for alarm set points,

calibration gas values and industrial hygiene functions

- User-selectable password option to protect critical values
- Two-year all-inclusive warranty

Applications

- Chemical
- Construction
- Electric Utility
- General Industry
- Hazardous Materials
- Manufacturing
- Mining
- Oil and Gas
- Paper & Pulp
- Telecommunications
- Water/Wastewater
- Welding

Rugged Construction

The Solaris Multigas Detector is cased in rubberized armor that helps to absorb impact if the unit is accidentally dropped and the IP 65 rating provides superior protection against liquid and dust ingress. This also helps to ensure that the Solaris Multigas Detector will perform reliably in the harshest industrial environments.



Ultimate Flexibility

The Solaris Multigas Detector unit can be easily configured by the user to detect up to four gases simultaneously. Users can also easily modify most instrument functions including alarm and expected calibration gas concentration values, industrial hygiene (STEL, TWA) functions and many other operating and set-up parameters. And all critical values are protected behind a user-selectable password option.

World-Class Alarm System

The triple alarm system utilized in the Solaris Multigas Detector is outstanding. High intensity LED visual alarms are visible from all angles. The Solaris Multigas Detector unit

also has a user-enabled LED that flashes a green light every 15 seconds simply to indicate to the user that the instrument is working properly. The Solaris Multigas Detector audible alarm is typically measured in excess of 100 dB! Its shrill tone calls urgency to potentially dangerous situations and is not easily confused with other workplace sounds. A strong vibrating alarm is included as a standard feature.



Versatile Display

Even with the tiny size of the Solaris Multigas Detector, this instrument offers a superior display. Its backlighting provides exceptional contrast, making it easy to read in low-light conditions and from a variety of angles. All gas concentrations are displayed simultaneously and can be easily identified at a glance. The Solaris Multigas Detector display also contains an alphanumeric message bar that clearly displays specific commands and easily guides users through various instrument functions.



Simple Calibration

Calibration is intuitive and is accomplished with the push of a single button. This auto calibration feature greatly simplifies calibration and reduces training needs. It features built-in logic and enables the use of a wide variety of calibration gas concentrations.

Long-Life Batteries

Lithium Ion Battery Version

The rechargeable lithium ion battery provides 14+ hours of continuous operation and out-performs other battery technologies in extreme environmental conditions. The Solaris Multigas Detector battery will fully recharge in less than four hours and will still maintain over 80% of its original capacity after 500 recharge cycles. There is nothing extra to buy—all Solaris Multigas Detector units are shipped with a charging cradle and power cord.



Alkaline Battery Version

The Solaris Multigas Detector is now available with alkaline batteries. This version of the Solaris Multigas Detector will continuously operate for 12+ hours utilizing three AA batteries. Designed with two easy-to-remove thumb screws and with durability in mind, this version of the Solaris Multigas Detector will continue to be one of industries' toughest and easiest-to-use instruments.



Galaxy™ System Compatibility

To make the Solaris Multigas Detector compatible with the Galaxy Automated Test System, order the unit with the Datalog option. As the industry's leading standalone calibration system, the Galaxy System allows users the ability to automatically calibrate, charge and keep calibration records for their instruments. As an optional feature, the Galaxy System provides access to calibration records and results via a wired or wireless network interface.

Optional Sampling Pump

The Solaris Multigas Detector offers an optional powered sampling pump that is contained within the sampling probe accessory. The basic pump platform uses the same proven technology as other MSA portable instruments. The pump probe can be used with up to 50 feet of tubing for remote sampling applications. The pump module also includes an extensive filtering system to keep liquid and particulate contaminants at bay.



Solaris FX Multigas Detector

The Solaris FX Multigas Detector has an improved LEL sensor that has faster response and release times for toluene, xylene and other aromatic hydrocarbons. With these enhancements, the Solaris FX Multigas Detector is ideal for use in the chemical and petrochemical markets, where fast detection and clearing of aromatic hydrocarbons is crucial.

The following graph illustrates the much faster response of the Solaris FX Multigas Detector to toluene as compared to that of a 20L sensor.



Outstanding Warranty

The Solaris Multigas Detector comes with a two-year, all-inclusive warranty. This combination of features and affordability makes the Solaris Multigas Detector an undisputed leader in its class.

The Solaris Multigas Detector is available in the following convenient kit configurations. Kits include the Solaris Multigas Detector complete with datalogging, calibration cap, tubing, and instruction manual. Other configurations are available through the MSA ATO (Assemble-To-Order) system. Please refer to the Solaris Multigas Detector ATO sheet for details. **For MSHA-approved instruments please see the Solaris MSHA Multigas Detector Assemble-To-Order System and Pricing Guide, bulletin#0816-65-MC or call MSA Customer Service at 800-MSA-2222.**

Solaris Multigas Detectors	Solaris	Solaris FX	Solaris with Alkaline Batteries
<i>Standard Kits (include datalogging options)*</i>	<i>Part No.</i>	<i>Part No.</i>	<i>Part No.</i>
4- Gas Instrument	10048147	10056453	10071215
3-Gas Instrument (LEL, O ₂ , CO)	10048149	10056454	10071216
2-Gas Instrument (LEL, O ₂)	10048214	10056456	10071217
<i>Industrial Kits (include Econo-Cal kit and datalogging option)*</i>	<i>Part No.</i>	<i>Part No.</i>	<i>Part No.</i>
4- Gas Instrument	10071188	10071185	10071218
3-Gas Instrument (LEL, O ₂ , CO)	10071189	10071186	10071219
2-Gas Instrument (LEL, O ₂)	10071190	10071187	10071220
<i>Deluxe Kits (include sampling pump, Econo-Cal kit and datalogging option)*</i>	<i>Part No.</i>	<i>Part No.</i>	<i>Part No.</i>
4- Gas Instrument	10049297	10056461	—
3-Gas Instrument (LEL, O ₂ , CO)	10049298	10056462	—
2-Gas Instrument (LEL, O ₂)	10049300	10056464	—

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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