



MSA
STELLAR® Series
Gas Detection Instruments

Orion® G Multigas and Leak Detector

[For Gas Utility Applications]



The Orion G Multigas and Leak Detector is the only instrument you need for detecting combustible gas leaks on appliances, flues and underground pipes. And with its internal O₂, H₂S, CO and LEL sensors, it also is great for confined space applications. Best of all, it's designed and built by MSA. The Orion G Multigas and Leak Detector is perfect for the following uses:

Hazards	Applications
Methane	Leaks from gas meters, bar holes, furnaces, pipes, storage tanks, survey sites
Combustible Atmospheres	Confined spaces
Oxygen Deficiency	Confined spaces
Carbon Monoxide	Flues, furnaces
Hydrogen Sulfide	Confined spaces

Take a look at the following features to see why the Orion G Multigas and Leak Detector is the gas-detection industry leader:

Multi-Function Flexibility



Whether your applications are indoor or outdoor (or both), for detecting combustible gases or oxygen deficiency, the Orion G Multigas and Leak Detector will meet all of your needs in one

instrument. It's perfect for detecting leaks in indoor appliances or flues and also in outdoor, underground piping. Along with the internal combustible gas sensor, users can configure any combination of gases including O₂, CO and H₂S. For low-level leaks, 0-100% LEL or 0-100% by volume, this is the only gas detector you need.

Bar-Hole Probe Filter Trap

The Orion G Multigas and Leak Detector is also



the perfect instrument for bar-hole sampling. The bar-hole probe filter trap is designed to keep out water and dirt. The "quick connect" feature allows the user to attach a probe or sampling line while

minimizing the possibility of air leaks.

Superior Design

The sensor is located on the end of a flexible gooseneck probe, thereby allowing the sensor to be placed closer to the item being tested. As a result, the Orion G Multigas and Leak Detector has a super-fast response time. Also, the sleek design allows the instrument to fit easily and comfortably in the hand. And the leak sensor is intrinsically safe.

Long-Life Battery

The Orion G Multigas and Leak Detector accommodates either a NiMH battery pack or alkaline batteries. The NiMH battery pack provides up to 16 hours of continuous instrument operation, and a full battery charge using MSA's Fast Charger takes less than 4 hours. With alkaline batteries, the unit will operate a minimum of eight hours.

Durable Sensors

The combustible gas sensor inside the Orion G Multigas and Leak Detector is the MSA Series 20L sensor. The 20L sensor provides up to 50 times the silicone poison tolerance, which considerably expands the service life of the sensor. The 20G sensor in the tip of the probe is a fast-reacting, solid-state sensor.

All the sensors used in the Orion G Multigas and Leak Detector are easy to maintain. To access the internal sensors, simply remove three screws and the sensor cover and lift out the sensors. Just a twist of the leak sensor housing provides access to easily change the 20G leak sensor.

One-Button Calibration

Calibration of the internal sensors is intuitive.



It's accomplished with the push of a single button.

This autocalibration feature greatly simplifies calibration and reduces training needs.

Adjustments are limited to 30 percent of the expected span value, which helps to prevent improper calibration.

Tough, Durable Construction

The Orion G Multigas and Leak Detector has excellent resistance to penetration from water and dust, allowing it to perform in the harshest environments. The unit has a weather-resistance rating of IP54. The clear cap at the end of the probe allows the user to see the internal filter, taking the guesswork out of when to change the filter. Also, the bar-hole probe filter trap keeps out water and dirt, extending the performance and life of the instrument.

Large, Easy-To-Read Display



With one of the largest displays of any multigas detectors on the market, the Orion G Multigas and Leak Detector is easy to read. Its backlighting provides exceptional

contrasts, making it easier to read in low-light conditions and from a variety of angles. All gases are displayed at one time, along with measured readings. Alarm lights are also easily visible from all angles.

TIM® Compatibility

Order the data-logging option available for the Orion G Multigas and Leak Detector to make the unit fully compatible with MSA's TIM® (Total Instrument Manager) System. As the industry's leading computerized calibration system, TIM® allows users to automatically calibrate their instruments and track calibration records.

Built-In Pump



The low price of the Orion G Multigas and Leak Detector includes the built-in pump for remote sampling of the environment and fast response to leaks.

This combination of features and low price make the Orion G Multigas and Leak Detector the undisputed leader in the industry.

Orion G Multigas and Leak Detector Kits for Gas Utility Applications

			Combustible Gas	O ₂	CO	H ₂ S		Alkaline Battery	NiMH Battery	Vehicle Charger	Quick Connection	Threaded Connection	10 ft. Sampling Line	Bar Hole Probe	Black Boot	Yellow Jacket	Calibration Kit	Data Logging	Carrying Case
DELUXE	4-gas	10041504	•	•	•	•		•	•	•		•	•	•	•	•	•	•	•
	3-gas, H ₂ S	10041505	•	•		•		•	•	•		•	•	•	•	•	•	•	•
	3-gas, CO	10041506	•	•	•			•	•	•		•	•	•	•	•	•	•	•
STANDARD	4-gas	10041507	•	•	•	•	•			•		•	•	•	•				
	3-gas, H ₂ S	10041508	•	•		•	•			•		•	•	•	•				
	3-gas, CO	10041509	•	•	•		•			•		•	•	•	•				
ECONOMY	4-gas	10041510	•	•	•	•	•			•		•	•						
	3-gas, H ₂ S	10041511	•	•		•	•			•		•	•						
	3-gas, CO	10041512	•	•	•		•			•		•	•						
SUPER ECONOMY	4-gas	10041513	•	•	•	•	•			•									
	3-gas, H ₂ S	10041514	•	•		•	•			•									
	3-gas, CO	10041515	•	•	•		•			•									

For customized assemble-to-order Orion G Multigas and Leak Detector configurations or replacement parts, please request ATO bulletin #0816-45-MC.

Prices are suggested U.S. list prices only and may not apply in international markets. Prices subject to change without prior notification.

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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