



MSA  
**STELLAR™ Series**  
Gas Detection Instruments

**ALTAIR™ Maintenance-Free Single-Gas Detector**  
[ More than two years maintenance-free! ]

**MSA** **ALTAIR™**

**When it comes to understanding our customers' needs and delivering the highest quality products, MSA's 90 years of experience in gas detection is evident. With the introduction of the ALTAIR Single-Gas Detector, MSA sets a new standard in the market by offering over two years of effective lifetime for maintenance-free detectors.**

These innovative toxic gas and oxygen detectors can operate for over two years (depending upon alarm minutes used), and when combined with high performance, your money is spent more efficiently. The ALTAIR Single-Gas Detector offers superior dust and water protection, great RFI performance and features an excellent triple alarm system. Two bright LEDs and a piercing audible alarm with a standard vibrating alarm help to ensure that no alarm condition will go by unnoticed. Oxygen models offer fast response time and will display numeric concentration readings with a single button press.

With sensor options for CO, H<sub>2</sub>S or O<sub>2</sub>, the ALTAIR Single-Gas Detector will provide maintenance-free performance and stand up to the roughest handling in even the toughest industrial environments. Its rubberized armor housing and one-button operation provide the durability and ease-of-use you expect from MSA. The ALTAIR Single-Gas Detector is designed and built with MSA's superior quality and is part of the MSA STELLAR® Series, which features a varied selection of single and multigas instruments.

### **Maintenance-Free Service Life**

This factory-calibrated detector provides warranted two-years or 1080 alarm minutes (18 hours) of service life with no maintenance. No sensor or battery change is needed. With its built-in gas delivery adapter, no easy-to-misplace accessories are needed to conduct gas response tests, locking out any hidden replacement costs.

### **Bump Check Made Easy**

By confirming "Gas Test" with a single button press, the unit allows for a simple bump check, which will be recorded and displayed on the screen as a checkmark for 24 hours. This checkmark is confirmation of not only an electronic circuit check but also of sensor response. While it is only necessary to do a bump test to ensure proper sensor response, the ALTAIR Single-Gas Detector offers a built-in calibration feature, allowing calibration of your instrument as required in some facilities.

### **Long-Life Battery**



The long-life lithium battery offers significantly more capacity than its closest competitor and will far outlast the two minutes of alarm mode per day standard. ALTAIR Single-Gas Detector units will not deactivate after two years of operation but will continue to deliver performance as long as battery capacity and sensor performance allows. No other maintenance-free single-gas detector in its class can beat this performance.

### **Sensors**



Patented, MSA-built Button™ Toxic Gas Sensors feature stainless steel construction and contain solid electrolyte, virtually eliminating the possibility of sensor leakage. The extremely small and thin sensor profile allows the ALTAIR Single-Gas Detector to deliver high performance in a very small package. These toxic gas sensors provide stability for the service life of the unit. The ALTAIR Single-Gas Detector oxygen version accommodates the industry-standard fast-responding 20 Series oxygen sensor and is UL, cUL, ATEX and Australian standards approved.

### Built-In IR Communication

The ALTAIR Single-Gas Detector will record the 25 latest alarm events automatically, offering a great tool for assessment of alarm conditions; just connect it to your MSA InfraRed adapter using the standard, built-in IR communication. Alarm set points can be adjusted manually prior to the unit's activation, or through the IR link after activation.

### Rugged Clip



The ALTAIR Single-Gas Detector is delivered with a proven suspension clip so it can be worn anywhere in the breathing area; on the helmet, on the belt and many other places. MSA's rugged clip design keeps the unit attached during even the roughest use.

### Easy-To-Read Display



The ALTAIR Single-Gas Detector offers a simple, easy-to-read display. Its large numeric display allows users to count down service life, alarm conditions, set points, peak reading and hours in alarm since activation with accuracy and confidence. The display on O<sub>2</sub> versions helps the user to identify the current level as well as its highest and lowest readings at a glance. Users can perform a fresh-air setup and reset the peak reading with the touch of a button.

### Water and Dust Resistance



The ALTAIR Single-Gas Detector is highly water and dust resistant and tested to IP67. This simple yet effective design

innovatively utilizes its rubberized armor to seal the unit from water and dust ingress, providing a tight seal and making it exceed the industry-average rating.

### Distinctive Alarm System

A triple alarm system leaves no doubt for the user in an alarm situation. The audio alarm is loud, at an average of 95 dB @ 1 foot and is designed not to be confused with other workplace sounds. It also features an extended frequency range covering a wide sound spectrum for proper usage, even by tone-deaf individuals. The visual alarm features dual, super-bright LED displays located on top of the instrument which can be seen from all angles and when worn inside the pocket. The numeric display shows "LO" or "HI" alarm status. A vibrating alarm comes standard with the unit and emits a pulse when in alarm mode that calls additional attention to the user.

### Durability

The extra-thick rubberized housing is designed to withstand accidental drops and provides resistance to water ingress. Metal screw inserts offer stability over the unit's lifetime. These are just a few of many features recognizable in MSA's durable design. Our focus on reliability, ease-of-use and durability are key design elements of the ALTAIR Single-Gas Detector.

**The unique design of the ALTAIR Single-Gas Detector, combined with its highly competitive price makes it the clear choice when selecting maintenance-free single-gas instruments. No other single-gas detector in its class logs and stores as many alarm events as this state-of-the-art instrument. The ALTAIR Single-Gas Detector is designed and manufactured by MSA, the most trusted name in the safety products industry.**

## Specification

<b>Weight</b>	4.0 oz including clip
<b>Dimensions</b>	3.4" x 2.0" x 1.0"
<b>Gases and Measuring Ranges</b>	
Gas	Range
Oxygen	0-25% by vol
Carbon Monoxide	0-500 ppm
Hydrogen Sulfide	0-100 ppm
<b>Alarms</b>	Average >95 dB @ 30 cm, Ultra bright LED's, vibrating alarm standard
<b>Warranty</b>	2 years or 1080 minutes (18 hrs) of alarm under normal conditions
<b>Instrument Life</b>	>2 years at an average of 2 minutes of alarm per day
<b>Operating T Range</b>	-20°C to +50°C
<b>Humidity</b>	10-95% RH non-condensing
<b>Ingress Protection</b>	IP67
<b>Event Logging</b>	25 Latest Events
<b>Certifications</b>	
US and Canada	Class 1, Division 1, Groups A, B, C and D
Europe	ATEX II 2G EEx ia IIC T4 -20°C to +50°C
Australia	Ex ia IIC T4 -20°C to +50°C

## Ordering information

### Instrument Type – Standard Models

Instrument Type	P/N	1st Alarm	2nd Alarm
Carbon Monoxide (CO)	10070750	25 ppm	100 ppm
Hydrogen Sulfide (H <sub>2</sub> S)	10070749	10 ppm	15 ppm
Oxygen (O <sub>2</sub> )	10070791	19.5% Vol	23% Vol

### Instrument Type – Alternate Set Point Models

Instrument Type	P/N	1st Alarm	2nd Alarm
Carbon Monoxide (CO)	10071334	30 ppm	60 ppm
	10071335	35 ppm	100 ppm
	10071336	35 ppm	400 ppm
	10071337	50 ppm	200 ppm
	10071338	100 ppm	300 ppm
Hydrogen Sulfide (H <sub>2</sub> S)	10071340	10 ppm	20 ppm
	10071361	5 ppm	10 ppm
	10071362	8 ppm	12 ppm
	10071363	7 ppm	14 ppm
Oxygen (O <sub>2</sub> )	10071364	19.5% Vol	18% Vol

## Accessories and Spare Parts

710882	Cylinder, 60 ppm CO	10069894	Clip, stainless steel
473180	Cylinder, 300 ppm CO	10041105	Cellphone clip
467897	Cylinder, 40 ppm H <sub>2</sub> S, RP	10041107	Lanyard kit
711062	Cylinder, 40 ppm H <sub>2</sub> S, Econo-Cal	710946	FiveStar® Link® with IR (for event log)
467895	Regulator, 0.25 lpm	10030325	Tube, 16"
10040002	Clip, suspender (standard)		

For custom alarm set-points or other suspension clip options, please contact MSA Customer Service at 1-800-MSA-2222.

**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.



**Corporate Headquarters**  
P.O. Box 426, Pittsburgh, PA 15230 USA  
Phone 412-967-3000  
[www.MSAnet.com](http://www.MSAnet.com)

**U.S. Customer Service Center**  
Phone 1-800-MSA-2222  
Fax 1-800-967-0398

**MSA Canada**  
Phone 1-800-MSA-2222  
Fax 905-238-4151

**MSA Mexico**  
Phone 52-55 21 22 5770  
Fax 52-55 359 4330

**MSA International**  
Phone 412-967-3354  
Fax 412-967-3451

**Offices and representatives worldwide**  
For further information:

