

# ALTAIR<sup>®</sup> 5 Multigas Detector

The most advanced portable multigas detector that calls for help when you can't.

**Expanded  
sensor  
availability**  
IR and  
toxic gases



**MSA**  
The Safety Company



MSA's Altair® 5 Multigas Detector – the latest addition to the toughest instrument family you can find, now offers IR capability and the brightest, most legible color display in the industry – even in bright sunlight.



### Getting started

The new MSA **Altair 5 Multigas Detector** raises the bar to higher levels of detection:

- 6-gas capability lets you test for more hazards in less time
- More than 18 preprogrammed languages are suitable for global applications
- High-resolution, crisp color display option incorporates intuitive user-interface
- Patented PulseCheck® Pump is integrated to ensure optimum pump performance
- Lithium-ion rechargeable battery provides enough runtime to cover double shifts
- 2-year comprehensive warranty for standard models helps to protect your investment

### A call for help when you need one

Ideal for confined space applications or when working alone, exclusive **MotionAlert™ feature**, when enabled, activates a “man down” alarm if no motion is detected for 30 seconds. Exclusive **InstantAlert™ feature** allows users to manually activate an audible alarm to alert those nearby to potentially dangerous situations.

### Easy to understand & operate

Using a portable gas detector should never be a challenge! The intuitive menu-driven display and three large, tactile buttons make operation easy – even while wearing gloves. Numerous customization options fit many budgets and experience levels, from personal monitoring and confined space pre-entry checks to industrial hygiene use.

### Reliable sensors

MSA's miniature catalytic combustion sensors will reliably detect up to 100% LEL of combustible gases, including many solvents. Our IR sensors deliver stable readings in environments with challenging temperature and humidity conditions. MSA's high-performing electrochemical duo-tox hydrogen sulfide/carbon monoxide sensor offers an additional sensing option. Many other toxic sensor choices are available, including ammonia, chlorine, hydrogen cyanide, phosphine, and sulfur dioxide.

### Calibration, simplified

The MSA **Galaxy® Automated Test System** provides for easy calibration and record keeping, while MSA **Link™ Data Transfer** Software quickly transfers stored information to a connected PC.

### This unit could be the most rugged instrument you'll ever use

- Comfortable to use – ergonomically designed rubber over-molded housing provides superior grip
- Water and dust resistant – IP65-rated
- Unsurpassed durability – survives a six-foot drop test





Logo display screen customization

## Options

- High-resolution color or monochrome display screen
- Integral pump or diffusion option
- Rechargeable lithium-ion or alkaline battery options
- 18-language display capability
- Expanded e-chem sensor options **NEW!**
- IR sensor options **NEW!**

## Ordering information

Altair 5 Multigas Detector with data logging, integral pump, rechargeable battery pack, charger, calibration cap, tubing, CD manual

Economy Kits - Monochrome Display		
UL Part Number	CSA Part Number	Description
10094919	10094949	Altair 5 mono, with pump (LEL, O <sub>2</sub> , H <sub>2</sub> S)
10094920	10094950	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S)
10094921	10094951	Altair 5 mono, with pump (LEL, O <sub>2</sub> , H <sub>2</sub> S, SO <sub>2</sub> )
10094922	10094952	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, SO <sub>2</sub> )
10094923	10094953	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, NO <sub>2</sub> )
10094924	10094954	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, NH <sub>3</sub> )
10094925	10094955	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, Cl <sub>2</sub> )
10094926	10094956	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, ClO <sub>2</sub> )
10094927	10094957	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, PH <sub>3</sub> )
10094928	10094958	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, HCN)
Industrial Kits - Monochrome Display, 10 ft sampling line & 1 ft probe		
10094739	10094929	Altair 5 mono, with pump (LEL, O <sub>2</sub> , H <sub>2</sub> S)
10094740	10094930	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S)
10094901	10094931	Altair 5 mono, with pump (LEL, O <sub>2</sub> , H <sub>2</sub> S, SO <sub>2</sub> )
10094902	10094932	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, SO <sub>2</sub> )
10094903	10094933	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, NO <sub>2</sub> )
10094907	10094937	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, PH <sub>3</sub> )
10094908	10094938	Altair 5 mono, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, HCN)
Deluxe Kits - Color Display, 10 ft sampling line & 1 ft probe		
10094909	10094939	Altair 5 color, with pump (LEL, O <sub>2</sub> , H <sub>2</sub> S)
10094910	10094940	Altair 5 color, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S)
10094911	10094941	Altair 5 color, with pump (LEL, O <sub>2</sub> , H <sub>2</sub> S, SO <sub>2</sub> )
10094912	10094942	Altair 5 color, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, SO <sub>2</sub> )
10094913	10094943	Altair 5 color, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, NO <sub>2</sub> )
10094917	10094947	Altair 5 color, with pump (LEL, O <sub>2</sub> , CO, PH <sub>3</sub> )
10094918	10094948	Altair 5 color, with pump (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S, HCN)



### Calibration Accessories

Calibration Accessories	Part No.
58L RP 60 ppm CO, 20 ppm H <sub>2</sub> S, 15% O <sub>2</sub> , 1.45% CH <sub>4</sub>	10045035
58L RP 60ppm CO, 20 ppm H <sub>2</sub> S, 15% O <sub>2</sub> , 1.45% CH <sub>4</sub> , 2.5% CO <sub>2</sub>	10103262
34L Econo-cal 60 ppm CO, 20 ppm H <sub>2</sub> S, 15% O <sub>2</sub> , 1.45% CH <sub>4</sub>	10048280
34L Econo-cal 10 ppm SO <sub>2</sub> , air balance	711070

### Accessories

Accessories	Part No.
USB IR receiver	10082834
MSA Link Software CD	10088099



Specifications			
Gas	Range	Sensor type	Resolution
LEL	0-100%	Catalytic combustible	1% LEL
O <sub>2</sub>	0-25% Vol	Electrochemical	0.1% Vol
CO	0-999 ppm	Electrochemical	1 ppm
H <sub>2</sub> S	0-200 ppm	Electrochemical	1 ppm
SO <sub>2</sub>	0-20 PPM	Electrochemical	0.1ppm
Cl <sub>2</sub>	0-20 PPM	Electrochemical	0.1ppm
NH <sub>3</sub>	0-100 PPM	Electrochemical	0.5ppm
PH <sub>3</sub>	0-5 PPM	Electrochemical	0.1ppm
*HCN	0-30 PPM	Electrochemical	0.1ppm
ClO <sub>2</sub>	0-1 PPM	Electrochemical	0.01ppm
NO <sub>2</sub>	0-20 PPM	Electrochemical	0.1ppm
CO <sub>2</sub>	0-10% Vol	IR	0.01% Vol
CO <sub>2</sub>	0-50% Vol	IR	0.1% Vol
CH <sub>4</sub>	0-25% Vol	IR	0.2% Vol
C <sub>3</sub> H <sub>8</sub>	0-100% LEL	IR	1% LEL
C <sub>3</sub> H <sub>8</sub>	0-100% Vol	IR	1% Vol
C <sub>4</sub> H <sub>10</sub>	0-25% Vol	IR	0.1% Vol
*C <sub>4</sub> H <sub>10</sub>	0-100% Vol	IR	1% Vol

\*Call MSA for availability

Drop test	6 feet
Housing	Rugged rubberized armor
Weight	1 lb, 1.15 lb. (with IR sensor)
Dimensions (L x W x D)	6.68" x 3.52" x 1.95" (rechargeable, pumped, with belt clip) 6.68" x 3.52" x 1.65" (rechargeable, diffusion, no belt clip)
Audible alarm	>95 dB at 1 ft
Visual alarm	2 ultra-bright LEDs
Vibrating alarm	Standard
MotionAlert feature	Standard
InstantAlert feature	Standard
Display size	1.79" x 1.39" high contrast, back-lit
Display option	color/monochrome
Backlight	display time adjustable
Battery	Rechargeable Li-ion or Alkaline
Run time	15 hrs @ room temperature, 12+ hrs for IR version @ room temperature
Charging time	<= 6 hrs
Operating temperature range	-20 °C to +50°C
Humidity	15 – 90% RH non-condensing
Ingress protection	IP65
Data log	> 200 hrs
Event log	> 1000 events
Warranty	2 years under normal use conditions for LEL/O <sub>2</sub> /CO/H <sub>2</sub> S versions

Certifications  
 CE ATEX II 2G  
 Ex ia d IIC T4 -20°C to +50°C  
 UL Class I, Division 1, ABCDFG, Class II, Class III  
 CSA C22.2 No. 157 Class I, Div. 1, Groups ABCD  
 ANZ Ex ia s I/IIC T4 (Zone 0) -20°C to +50°C  
 IEC Ex ia d e I/IIC T4 -20°C to +50°C



MSA-U® Training Center offers a wide range of training and informational materials. Register today at <http://msau.msanet.com>.

*The Altair 5 Multigas Detector training presentation is one of the many programs currently available on MSA-U.*

**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 1-800-672-2222  
 Fax 1-800-967-0398

**MSA Mexico**  
 Phone 01 800 672 7222  
 Fax 52-44 2227 3943

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

**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.

**ID 0802-46-MC / Sept 2010**  
 © MSA 2010 Printed in U.S.A.



**MSA**  
 The Safety Company