

IT'S WHAT'S INSIDE THAT COUNTS

ALTAIR 4X Multigas Detector With MSA XCell® Sensor Technology





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OUR VISION OF SAFETY Workers who face potentially hazardous situations deserve the best protection available. At MSA, we work tirelessly to build smarter, better gas detection instruments that people across the world can rely on. To that end, we're proud to introduce the most advanced technology available in any portable gas detector on the market:

the ALTAIR 4X Multigas Detector with XCell Sensor Technology.

Built on Durability

The ALTAIR 4X Multigas Detector for LEL, O_2 , CO, H_2S (with $CO-H_2$ res, H_2S-LC , SO_2 or NO_2 option) is as tough and functional as it looks. A rugged housing provides unsurpassed durability, including the ability to survive a 20-foot drop. And with large, glove-friendly buttons and a high-contrast display, the ALTAIR 4X Multigas Detector is easy to operate in any work environment, even low-light conditions.

Powered by Performance

Toughness and durability aren't the whole story. The real strength of the ALTAIR 4X Multigas Detector comes from new sensor technology. MSA XCell Sensors have a typical life of more than four years, double the industry average, and are engineered using MSA's proprietary application-specific integrated circuit (ASIC) design. By miniaturizing sensor controlling electronics and placing them inside the sensor itself, MSA XCell Sensors offer superior stability, accuracy and repeatability.

MSA XCell Sensors are a breakthrough in chemical and mechanical sensor design, enabling faster response and span calibration times. With less time spent on calibration and bump tests, you save calibration gas, maintenance costs and in turn, save money. But most importantly, in your industry, saving seconds on response time can also mean saving lives.

Count on the ALTAIR 4X Detector

Exclusive safety features like MotionAlert[™] and InstantAlert[™] make the ALTAIR 4X Multigas Detector ideal for applications like confined space entry. The MotionAlert sensor activates when a user becomes disabled and motionless, quickly alerting others to the disabled user's location. And with a simple push of a button, the InstantAlert feature enables users to manually alert others to potentially hazardous situations.

The ALTAIR 4X Multigas Detector outlasts the competition. To prove it, the instrument comes with a full three-year warranty, an entire year longer than the industry average, so that you can depend on the ALTAIR 4X Multigas Detector to withstand the wear and tear that other portable gas detectors can't.

XCell® SENSORS

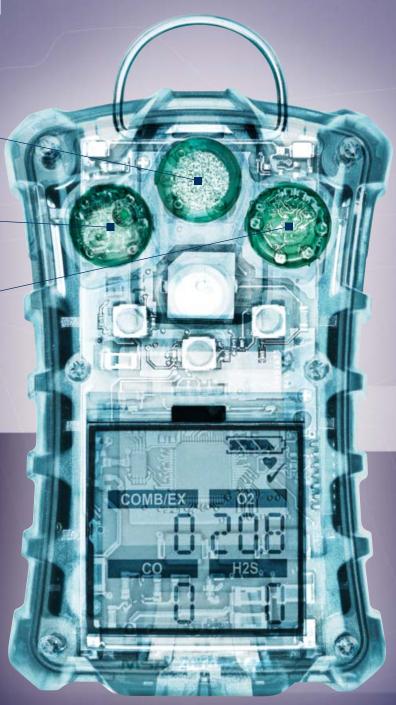
MSA XCell Combustible Sensor

MSA XCell CO/H₂S Sensor*

MSA XCell Oxygen Sensor



Adding microelectronics inside the sensors provides more control and higher performance than previous generations





MSA XCell Sensors are a breakthrough in chemical and mechanical sensor design, enabling faster response and span calibration times

THE MSA COMMITMENT FROM THE LATEST IN SENSOR TECHNOLOGY TO INSTRUMENT DESIGN AND MANUFACTURING, MSA HAS THE CAPABILITIES AND KNOWLEDGE TO SUPPORT YOUR PORTABLE GAS DETECTION CHALLENGES.

MSA XCell Technology:

Save Time, Save Money, Save Lives

Built upon years of sensor design experience, MSA is revolutionizing sensor technology with breakthroughs in design that improve performance.

- · Sensor response and clear times in less than 15 seconds
- Bump test in less than 15 seconds
- 60-second span calibration time
- Greater signal stability and repeatability under changing or extreme environmental conditions
- Two-tox CO/H2S sensor with virtually no cross-channel interference
- The digital output of the sensors makes them much less susceptible to RF interference

With reliable, extended-life XCell Sensors, there's no need to replace sensors after two years.

- Typical life greater than four years
- · Laser-welded sensor housings eliminate opportunities for leaks
- Combustible sensor's proprietary operating mode enhances poison resistance over the sensor's life
- End-of-sensor-life warning gives advanced notice to user, reducing service outages

Technology That's Tough

Life-Saving Performance

- Large buttons and a bright display enable quick and easy operation even while wearing gloves
- If a user becomes disabled due to unforeseen hazards, the MotionAlert sensor will activate after 30 seconds
- The InstantAlert feature enables users to manually alert others of a dangerous situation with the push of a button
- · Compatible with Galaxy® Test System
- MSA Link™ Pro and MSA Link Software-ready
- Global approvals for worldwide acceptance

Lasting Durability

- Full three-year warranty supports the entire instrument, including sensors and battery
- Withstands extreme impacts with rugged polycarbonate housing
- · Passes 20-ft drop test
- IP67-rated ALTAIR 4X Detector is both dust-and water-tight

Applications

- Oil, gas and petrochemical Pharmaceutical Chemical Confined spaces Fire service
- Utilities and telecommunications Municipal works, waste water Mining



New glow-inthe-dark housing for mining or confined spaces applications



MSA Link Software-ready

MotionAlert sensor signals "man down"

InstantAlert feature allows users to manually alert others to a dangerous situation

Large buttons for easy operation

End-of-sensor-life warning

Large, high-contrast liquid crystal display



Rugged stainless steel clip

Ultra-bright LEDs on unit's top and bottom

MSA XCell Sensors with protected sensor inlet

95+ dB alarm

24-hour battery run time

Easy bump-test mode with 24-hour checkmark indicator

Durable, rubberized housing for secure grip

Technical Specifi	cations	
Gas	Range	Resolution
LEL	0-100% LEL	1%
O ₂	0-30% vol	0.1% vol
CO or CO-H ₂ res	0-1999 ppm	1 ppm
H ₂ S or H ₂ S-LC	0-200 or 0-100 ppm	1 ppm or 0.1 ppm
Option: SO ₂ or NO ₂	0-20 or 0-50 ppm	0.1 ppm
	Drop test	20 ft
	Housing	Rugged rubberized
	Weight	7.9 oz
Dimensions (L x W x D)		4.4 x 3.0 x 1.31
	Audible alarm	>95 dB at 1 ft
	Visual alarm	4 ultra-bright LEDs on top and bottom
,	Vibrating alarm	Standard
MotionAlert & InstantAlert		Optional
	Display	High-contrast LCD
	Backlight	Adjustable time-out
	Battery	Rechargeable li-polymer
	Run time	24 hours @ room temperature
	Charging time	< 4 hrs
Operating tem	perature range	-10° C to +40° C
Extended tem	perature range	-20° C to +50° C
Short peri	od (15 minutes)	
-	perature range	-40 $^{\circ}$ C to +60 $^{\circ}$ C
	Humidity	15 – 90% RH non-condensing
Ing	ress protection	IP67
	Data log	(adjustable) 50-hour minimum
	Event log	Standard 500 events
Sta	ndard warranty	3 years

For additional customized versions and calibration gases, use MSA's ATO ordering sheet or contact MSA Customer Service at 1-800-MSA-2222.

Extended warranty

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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MSA – The Safety Company 1000 Cranberry Woods Drive

Optional 1-year

Cranberry Township, PA 16066 USA Phone 724-776-8600 www.MSAsafety.com

U.S. Customer Service Center

Phone 1-800-MSA-INST Fax 1-800-967- 0398

MSA Canada

Phone 1-800-MSA-INST Fax 1-800-967-0398

MSA Mexico

Phone 01-800-672-7222 Fax 52-44-2227-3943

MSA International

Phone 724-776-8626 Toll Free 1- 800-672- 7777 FAX 724-741-1553

ALTAIR 4X Detector with 3-year warranty, data logging, charger, calibration cap, and tubing

Approvals				
U.S./CAN	ATEX	ANZ	Configuration	Case Color
10107602	10110453	10110447	LEL, O ₂ , CO, H ₂ S	Charcoal
10107603	10110456	10110450	LEL, O ₂ , CO, H ₂ S	Phosphorescent
10110443	10110454	10110448	LEL, O ₂ , CO	Charcoal
10110445	10110457	10110451	LEL, O ₂ , CO	Phosphorescent
10110444	10110455	10110449	LEL, O ₂	Charcoal
10110446	10110458	10110452	LEL, O ₂	Phosphorescent
10148343	_	_	LEL, O ₂ , CO, H ₂ S-LC	Charcoal

ALTAIR 4X Detector, 4-gas, in black case with calibration cylinder and 0.25 lpm regulator

U.S./CAN Approval	Configuration	Case Colo
10110488	LFL, O ₂ , CO, H ₂ S	Charcoal

ALTAIR 4X GALAXY GX2 Automated Test System N. America EU UK **AUS** Configuration 10128630 10128639 10128659 10128669 1 cylinder, charging 10128629 10128638 10128658 10128668 Up to 4 cylinders, charging 10128642 10128651 10128661 10128671 1 cylinder, non-charging 10128641 10128640 10128660 10128670 Up to 4 cylinders, non-charging

Calibration Gas10048280 Gas cylinder (34 l) 1.45% CH₄, 15% O₂, 60 ppm CO, 20 ppm H₂S 10045035 Gas cylinder (54 l) 1.45% CH₄, 15% O₂, 60 ppm CO, 20 ppm H₂S

Replacement Sensors 10106722 XCell Ex Combustible Sensor 10106729 XCell O₂ Sensor 10106725 XCell CO/H₂S Two-tox Sensor 10121213 XCell CO/H₂S-LC Two-tox Sensor 10121214 XCell CO H₂-RES/H₂S Two-tox Sensor 10121215 XCell SO₂/H₂S-LC Two-tox Sensor

Accessories					
	10152669	ALTAIR Pump Probe (U.S./CAN)			
	10153039	ALTAIR Pump Probe No Charger (U.S./CAN)			
	10152668	ALTAIR Pump Probe Euro Charger (ATEX/IEC)			
	10153040	ALTAIR Pump Probe No Charger (ATEX/IEC)			

Approvals (pending)

United States

10121217

ETL Class I, Div. 1, Groups A,B, C&D Tamb=-40°C to +54°C ETL Class II, Div.1, Groups E,F&G Class III, Div. 1 Tamb=-40°C to +54°C; T4

XCell NO₂/CO Two-tox Sensor

Canada

CSA Class I, Div. 1, Groups A,B,C&D CAN/CSA C22.2 152; 12.13.01-2000 ETL Class II, Div.1, Groups E,F&G Class III, Div. 1 Tamb=-40°C to +54°C; T4

ATEX

II 1G Ex ia IIC T4, -40°C to +60°C, IP67 (Zone 0 with no combustible sensor installed) II 2G Ex ia d IIC T4, -40°C to +60°C, IP67 (Zone 1 with combustible sensor installed)

IEC

Ex ia IIC T4, -40° C to $+60^{\circ}$ C (Zone 0 with no combustible sensor installed) Ex ia d IIC T4, -40° C to $+60^{\circ}$ C (Zone 1 with combustible sensor installed

Australia / New Zealand

Ex ia s IIC T4, -40°C to +60°C, IP67 (Zone 0)

