

ALTAIR® 5X Multigas Detector With MSA XCell® Sensor Technology



Now with advanced PID for VOC Detection

IT'S WHAT'S INSIDE **THAT COUNTS**

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WORKERS who face potentially hazardous situations deserve the best protection available. At MSA, we work tirelessly to build smarter, better gas detection instruments upon which people of the world rely. First we introduced MSA's advanced technology with the ALTAIR 4X Multigas Detector with XCell Sensors. Now we're proud to offer the most advanced sensor technology available in a six-gas portable instrument: **The ALTAIR 5X Multigas Detector with XCell Sensor Technology and PID option.**

Built upon Durability

The ALTAIR 5X Multigas Detector for combustible gases in % LEL and/or % volume range, O_2 and toxic gas detection is as tough and functional as it looks. A rugged, rubberized polycarbonate housing provides unsurpassed durability, including the ability to survive a 3-meter drop. Inside, a field-proven integral pump provides consistent gas flow without the problems of externally-attached components. Ergonomic design, glove-friendly buttons and high-contrast display make the ALTAIR 5X Multigas Detector easy to use for all applications.

Powered by Performance

Toughness and durability are only part of the story. The real strength of the ALTAIR 5X Multigas Detector comes from state-of-the-art sensor technology. By miniaturizing sensor-controlling electronics and placing them inside the sensor itself, MSA XCell Sensors offer superior stability, accuracy, repeatability and a typical life more than double the industry average.

MSA XCell Sensors are a breakthrough in chemical and mechanical sensor design, enabling faster response and span calibration times, saving you time, calibration gas, maintenance costs and in turn, money. But most importantly, saving seconds in response time can also mean saving lives. In addition to MSA XCell Sensors, the ALTAIR 5X can be equipped with advanced PID options for VOC detection. Our wide variety of IR sensors covers many gases and ranges including CO_2 .

XCell® SENSORS



ADDING MICROELECTRONICS inside the sensors provides more control and higher performance than previous generations.

Flexibility & Connectivity to Meet Your Needs

MSA's ALTAIR 5X Multigas Detector is configurable with either high-resolution color or monochrome LCD display with 18 built-in languages. MSA's Logo Express® Service is available to customize the color display. Interchangeable plug-and-play slots for MSA XCell Sensors indicated means up to six gases can be monitored simultaneously.

The ALTAIR 5X is fully compatible with the MSA GALAXY GX2 Automated Test System and MSA Link™ Pro and MSA Link Software to efficiently manage your entire fleet.



MSA XCELL SENSORS are a breakthrough in chemical and mechanical sensor design, enabling faster response and span calibration times.

Save Time, Save Money, Save Lives

Building upon decades of sensor design experience, MSA has revolutionized sensor technology with design breakthroughs that improve performance.

- XCell exotic SO₂, NO₂, Cl₂ and NH₃ Sensors for expanded monitoring applications
- Sensor response and clear times in less than 15 seconds for most common sensor configurations
- Bump test in less than 15 seconds for most common sensor configurations
- Span calibration time of 60 seconds for most common sensor configurations
- Greater signal stability and repeatability under changing or extreme environmental conditions
- All XCell Sensors are capable of plug-and-play installation for easy reconfiguration

With reliable, extended-life XCell Sensors, there's no need to replace sensors after 2 years.

- Typical life greater than 4 years for Combustible,
 O₂, CO/H₂S (and variants), CO/NO₂, CO-HC and SO₂ sensors
- Typical life greater than three years for NH₃ and Cl₂ sensors
- Combustible sensor proprietary operating mode helps maintain poison-resistance throughout sensor life
- End-of-sensor-life warning gives advanced notice to user, reducing service outages

3-year back-to-back instrument warranty includes LEL, O₂, CO, H₂S, SO₂, NO₂ XCell and IR sensors

2-year warranty on NH₃ and Cl₂; minimum 12-month warranty on other sensors

Count on the ALTAIR 5X Multigas Detector

Exclusive MotionAlert™ and InstantAlert™ features make the ALTAIR 5X Multigas Detector ideal for applications such as confined space monitoring. **MotionAlert** activates when a user becomes disabled and motionless, quickly alerting others as to the disabled user's location. And with a simple push of a button, **InstantAlert** enables users to manually warn others of potentially hazardous situations.

The ALTAIR 5X is the Long-Life leader. To prove it, the instrument comes with a full 3-year warranty,* an entire year longer than the industry average, so that you can depend upon the ALTAIR 5X to withstand the punishment that other portable gas detectors can't.



ALTAIR 5X Multigas Detector Features



FULLY COMPATIBLE
WITH MSA LINK™ AND
LINK PRO SOFTWARE
AND MSA GALAXY®
GX2 TEST SYSTEM

VARIETY OF OPTIONAL MSA INFRARED SENSORS

ROBUST INTEGRAL
PUMP FOR CONSISTENT
FLOW AND IMPROVED
DURABILITY

HIGH CONTRAST COLOR OR MONOCHROME DISPLAY

ADVANCED OPTIONAL VOC DETECTION

18 LANGUAGE OPTIONS

LARGE BUTTONS FOR EASY OPERATION



ADVANCED

MOTIONALERT AND
INSTANTALERT

HIGH PERFORMANCE
MSA XCELL SENSORS

BLUETOOTH WIRELESS

24-HOUR BUMP CHECKMARK

XCELL SENSOR

END-OF-LIFE

INDICATOR

DURABLE, RUBBERIZED HOUSINGFOR SECURE GRIP

MSA-exclusive feature

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Complete Solutions

The ALTAIR 5X Detector with advanced PID (photoionization) sensor options sets the gas detection bar even higher to meet evolving and diverse needs for VOC detection. PIDs are required tools not only for industrial hygiene, HazMat and specialized detection applications, but are increasingly a key element for safety teams and industrial operations. The unmatched durability of the ALTAIR 5X with advanced XCell Sensor technology is now combined with PID to provide a complete platform for users around the world.

What's more, PID instrument data can now seamlessly integrate into MSA's proven fleet management infrastructure.



Bluetooth Wireless Technology

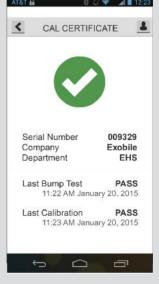
By incorporating Bluetooth as a standard feature, MSA brings the benefits of wireless safety to everyone.

By downloading the free MSA Portable Instrument APP available in multiple languages, from Google Play, any compatible Android device becomes an enhanced safety and productivity tool when paired with the ALTAIR 5X.

- Get gas detection readings and man-down alerts
- Configure instruments remotely
- Automate gas detector records and events
- Drive greater productivity and greater workflow efficiency
- Achieve supervisory awareness of worker safety
- Send gas alarms via text or email







Technical Specifications and Ordering Information



Gas Type	Range	Resolution
Combustible	0-100 % LEL	1 % LEL
Combustible	0-5 % Vol, CH ₄	0.05 % Vol CH ₄
Oxygen, O ₂	0-30 % Vol	0.1 % Vol
Carbon monoxide, CO	0-2000 ppm	1 ppm
CO H ₂ -Resistant	0-2000 ppm	1 ppm
CO-High Concentration	0-10,000 ppm	5 ppm
Hydrogen sulfide, H₂S	0-200 ppm	1 ppm
H ₂ S-Low Concentration	0-100 ppm	0.1 ppm
Sulfur dioxide, SO ₂	0-20 ppm	0.1 ppm
Nitrogen dioxide, NO ₂	0-50 ppm	0.1 ppm
Chlorine, Cl ₂	0-10 ppm	0.05 ppm
Ammonia, NH₃	0-100 ppm	1 ppm
Nitrogen oxide, NO	0-200 ppm	1 ppm
Nitrogen dioxide, NO ₂	0-20 ppm	0.1 ppm
Chlorine dioxide, CIO ₂	0–1 ppm	0.01 ppm
Phosphine, PH₃	0–5 ppm	0.05 ppm
Hydrogen cyanide, HCN	0-30 ppm	0.5 ppm
Carbon dioxide, CO ₂	0-10 % Vol	0.01 % Vol
Butane, C ₄ H ₁₀	0-25 % Vol	0.1 % Vol
Methane, CH₄	0-100 % Vol	1 % Vol
Propane, C₃H ₈	0-100 % Vol	1 % Vol
Propane, C₃H ₈	0-100 % LEL	1 % LEL
PID – 10.6eV	0-2000 ppm	0.1 ppm

Technical Specifications			
Drop test	3 m		
Ingress protection	IP65		
Housing	Rugged rubberized armor		
Weight	453 g (without belt clip, PID, or IR sensor)		
Dimensions (L x W x D)	16.9 x 8.9 x 4.2 cm without belt clip, PID, or IR sensor		
Audible alarm	>95 dB typical		
Visual alarm	2 ultra-bright LEDs on top		
Vibrating alarm	Standard		
MotionAlert & InstantAlert	Standard		
Display	High-contrast monochrome or colour display; PID version available with color display only		
Backlight	Adjustable time-out		
Battery	Rechargeable Li-ION or AA alkaline		
Run time	>20 hours run time @ room temperature		
Charging time	<= 6 hours		
Humidity	15–90 % RH non-condensing		
Data log	(Adjustable) average of 200 hours (at 1-minute intervals)		
Event log	Standard 1000 events		
Standard warranty	3-year including LEL/O₂/CO/H₂S/NO₂/SO₂ XCell Sensors and IR Sensors; NH₃ and Cl₂ XCell Sensors 2 years, other sensors: 1 year		

ALTAIR 5X Multi-Gas Detector with 3-year warranty, data logging, charger, integral pump and tubing				
Configuration	Part Number			
LEL, O ₂ , CO, H ₂ S, 0–10 % CO ₂ – colour display	10119611			
LEL, O ₂ , CO, H ₂ S, NH ₃ – colour display	10119632			
LEL, O ₂ , CO, H ₂ S, SO ₂ – colour display	10119616			
LEL, O ₂ , CO, H ₂ S, PID – colour display	10166730			
LEL, O ₂ , CO, H ₂ S – monochrome display	10119600			

ALTAIR 5X GALAXY GX2 Automated Test System				
1 Cylinder, Charging	10128635			
Up to 4 Cylinders, Charging	10128634			
1 Cylinder, Non-charging	10128637			
Up to 4 Cylinders, Non-charging	10128636			
Calibration Gas				
Gas can (58 l) (1.45 % CH ₄ , 15.0 % O ₂ , 60 ppm CO, 20 ppm H₂S)	10053022			
Gas can (58 l) (1.45 % CH ₄ ,15.0 % O ₂ , 60 ppm CO, 20 ppm H ₂ S, 2.5 % CO ₂)	10102853			
Gas can (34 l) (1.45 % CH ₄ , 60 CO, 20 H ₂ S, 15 % O ₂ , 10 SO ₂)	10122425			
Gas can (341) (100 ppm Isobutylene)	10169196			

Replacement Sensors			
PID 10.6eV	10165271	XCell SO ₂	10106727
XCell LEL	10106722	XCell Cl ₂	10106728
XCell O ₂	10106729	XCell NH₃	10106726
XCell CO/H ₂ S Two-Tox	10106725	NO	10114750
XCell CO H ₂ RES/H ₂ S Two-Tox	10121214	NO ₂	10080224
XCell CO/H ₂ S-LC Two-Tox	10121213	CIO ₂	10080222
XCell CO/NO ₂ Two-Tox	10121217	PH ₃	10116638
XCell CO-HC	10121216	HCN	10106375
Accessories			
Leather holster	10099648	USB IR receiver	10082834
Sampling line, 3 m, PU conductive	10103189	Battery pack, alkaline	10114838
Sampling line, 30 m, PU conductive	10159431	Vertical multi-unit charger for four ALTAIR 5X	10127428
Sampling probe, flexible 30 cm	10103191	Carrying case	10152079

 $Additional\ ALTAIR\ 5X\ versions, calibration\ gas\ cylinders, sensors\ and\ accessories\ are\ available.$

Approvals

ATEX 🍪 — I M1 Ex ia I Ma (ALTAIR 5X & ALTAIR 5X PID)

ATEX Ѿ − I M1 Ex ia I Ma (ALTAIR 5X IR)

EN 50270 Type 2, EN 61000-6-3 MED 2010/68/EU

(not applicable for ALTAIR 5X PID)



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.