

ALTAIR® 5X Multigas Detector

With MSA XCell® Sensor Technology



IT'S WHAT'S
INSIDE
THAT COUNTS

Now with
advanced PID
for VOC Detection

IT'S WHAT'S INSIDE THAT COUNTS

*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, O₂ 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 CO₂.

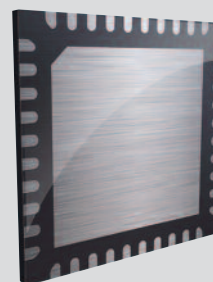
Flexibility & Connectivity to Meet Your Needs

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.

XCell®

S E N S O R S



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.

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

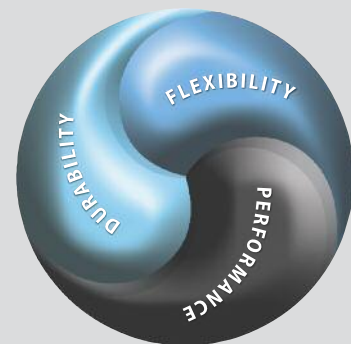
3-year back-to-back instrument warranty includes LEL, O₂, CO, H₂S, SO₂, NO₂ XCell and IR sensors

**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.



Online Product Simulator



Feel free to use ALTAIR 5X Multigas Detector simulator that takes viewers through instrument operation. This tool, available in several languages, is found at <http://webapps.msanet.com/altair5xsimulator/default.aspx>.

Find all our simulators at
<http://webapps.msanet.com/gasdetectionsimulators/>.

* 3-year warranty is for most common sensor configurations.

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
FEATURES

HIGH PERFORMANCE
MSA XCELL SENSORS

BLUETOOTH
WIRELESS
CONNECTIVITY

24-HOUR
BUMP CHECKMARK

XCELL SENSOR
END-OF-LIFE
INDICATOR

DURABLE,
RUBBERIZED HOUSING
FOR SECURE GRIP

MSA-exclusive feature



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.

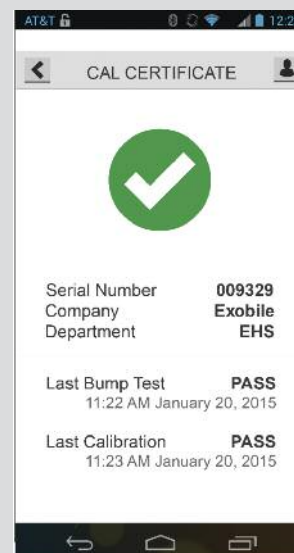


Bluetooth Wireless Technology

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



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, H ₂ S	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, NH ₃	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, ClO ₂	0–1 ppm	0.01 ppm
Phosphine, PH ₃	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, CH ₄	0–100 % Vol	1 % Vol
Propane, C ₃ H ₈	0–100 % Vol	1 % Vol
Propane, C ₃ H 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/O ₂ /CO/H ₂ S/NO ₂ /SO ₂ XCell Sensors and IR Sensors; NH ₃ and Cl ₂ XCell Sensors 2 years, other sensors: 1 year

Approvals			
ATEX Ⓔ – II 2G Ex db ia mb IIC T4 Gb	Ta = –40 °C to +50 °C	IP65 Zone 1 (w XCell Ex sensor)	EN 50270 Type 2, EN 61000-6-3 MED 2010/68/EU (not applicable for ALTAIR 5X PID)
ATEX Ⓔ – II 1G Ex ia IIC T4 Ga	Ta = –40 °C to +50 °C	IP65 Zone 0 (w/o XCell Ex sensor)	
ATEX Ⓔ – II 2G Ex db e ia mb IIC T4 Gb	Ta = –40 °C to +50 °C	IP65 (ALTAIR 5X IR)	
ATEX Ⓔ – II 2G Ex db ia mb IIC T4 Gb	Ta = –20 °C to +50 °C	IP65 Zone 1 (w XCell Ex sensor) (ALTAIR 5X PID)	
ATEX Ⓔ – II 1G Ex ia IIC T4 Ga	Ta = –20 °C to +50 °C	IP65 Zone 0 (w/o XCell Ex sensor) (ALTAIR 5X PID)	
ATEX Ⓔ – I M1 Ex ia I Ma (ALTAIR 5X & ALTAIR 5X PID)			
ATEX Ⓔ – I M1 Ex ia I Ma (ALTAIR 5X IR)			

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 H ₂ S)	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 (34 l) (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 NH ₃	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	ClO 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.

Your direct contact



Your specialist safety partner

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MSAsafety.com