

ALTAIR® 5X Multigas Detector

With MSA XCell® Sensor Technology



Now with advanced PID for VOC detection

Because every life has a **purpose...**

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 two years.

- Typical life greater than four years for combustible, O₂, CO/H₂S, NO₂, and SO₂ sensors
- Typical life greater than three years for $\ensuremath{\mathsf{NH}}_3$ and $\ensuremath{\mathsf{Cl}}_2$ 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

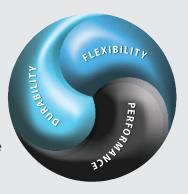
Three-year back-to-back instrument warranty includes CO/H₂S/O₂/LEL/SO₂, NO₂ XCell and IR sensors

Two-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** feature 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** feature enables users to manually warn others of potentially hazardous situations.

The ALTAIR 5X Detector is the long-life leader. 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 upon the ALTAIR 5X Detector to withstand the punishment that other portable gas detectors can't.



Online Training and Product Simulation



MSA's online training and Web content include the ALTAIR 5X Multigas Detector simulator that takes viewers through instrument operation. This tool is found at www.msasafety.com/altair5x.

MSA-U® Training Center is a feature-rich online training center that offers specific care and use training for the ALTAIR 5X Detector. Detailed training reports are available for managers, while an end-of-course quiz ensures effective training with feedback on incorrect test answers. Visit www.MSAsafety.com/msau.

 $^{{\}it *Three-year warranty is for most common sensor configurations.}$

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 LEL, 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 10-foot drop. Inside, a field-proven integral pump provides consistent gas flow without the concerns 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 of 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 Detectorcan be equipped with advanced PID options for VOC detection. Our wide variety of IR sensors covers many gases and ranges including CO_2 .

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 that up to six gases can be monitored simultaneously.

The ALTAIR 5X Detector 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.

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

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 option 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 Detector 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 ALTAIR Connect App from Google Play, any compatible Android device becomes an enhanced safety and productivity tool when paired with the ALTAIR 5X Detector.

- 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







<	ALTAIR 5X - 70394		
hus	()) Priori: Settings - Alarm Settings	MOTES Disch And set fings secoli dis	34
сомв			>
02			>
со)
H2S			5
METH			3
◄ I) Hom		On _	m
- LEDs		On The	m
((B)) Vibrate		(7n	m
Hall Man Down	n Alert	100	



Technical Specifications

Gas type	Range	Resolution
COMBUSTIBLE	0-100% LEL	1% LEL
COMBUSTIBLE	0-5% Vol, CH ₄	0.05% Vol CH ₄
OXYGEN	0-30%Vol	0.1%Vol
CARBON MONOXIDE	0-2000 ppm	1 ppm
CARBON MONOXIDE	0-10,000 ppm	5 ppm
HYDROGEN SULFIDE	0-200 ppm	1 ppm
HYDROGEN SULFIDE - LC	0-100 ppm	0.1 ppm
SULFUR DIOXIDE	0-20 ppm	0.1 ppm
CHLORINE	0-10 ppm	0.05 ppm
AMMONIA	0-100 ppm	1 ppm
NITROGEN DIOXIDE	0-20 ppm	0.1 ppm
NITROGEN DIOXIDE (XCELL)	0-50 ppm	0.1 ppm
CHLORINE DIOXIDE	0-1 ppm	0.01 ppm
PHOSPHINE	0-5 ppm	0.05 ppm
HYDROGEN CYANIDE	0-30 ppm	0.5 ppm
CARBON DIOXIDE, CO2	0-10%Vol	0.01%Vol
BUTANE, C4H10	0-25%Vol	0.1%Vol
METHANE, CH4	0-100%Vol	1%Vol
PROPANE, C3H8	0-100%Vol	1%Vol
PID - 10.6EV	0-2000 ppm	0.1 ppm

DROP TEST	10 feet			
HOUSING	Rugged rubberized armor			
WEIGHT	1 lb (without IR sensor)			
DIMENSIONS (L X W X D)	6.69" H x 3.49" W x 1.79" D without belt clip, PID, or IR sensor			
AUDIBLE ALARM	>95 dB typical			
VISUAL ALARM	2 ultra-bright LEDs, on top			
VIBRATING ALARM	Standard			
MOTION ALERT& INSTANT ALERT	Standard			
DISPLAY	High-contrast monochrome or color display			
BACKLIGHT	Adjustable time-out			
BATTERY	Rechargeable Li-ION or AA alkaline			
RUN TIME	20 hrs @ room temperature			
INGRESS PROTECTION	IP65			
STANDARD WARRANTY	3 years on CO, H ₂ S, LEL, O ₂ , SO ₂ , and IR sensors 2 years on NH ₃ , Cl ₂ sensors 1 year on other sensors			

For additional customized versions and calibration gases, use MSA's ATO ordering sheet or 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.

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Toll Free 1-800-672-7777

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Ordering Information

DESCRIPTION	ON		UL	P/N	C	SA P/N	
INSTRUMEN	NT ONLY KITS						
ALTAIR 5X [LTAIR 5X DETECTOR MONO, (LEL, O2, CO, H2S)		10116924		10115118		
ALTAIR 5X [ALTAIR 5X DETECTOR MONO, (LEL, O ₂ , CO, H ₂ S, SO ₂)			10116925 10115119			
ALTAIR 5X [DETECTOR COLOR, (LEL, O ₂ , CO, H ₂ S, PID)		10165445				
STANDARD	KITS - MONOCHROME DISPLAY, 10-FT SAM	IPLING	LINI	E, 1-FT PRO	DВ	E	
ALTAIR 5X [DETECTOR MONO, (LEL, O ₂ , CO, H ₂ S)		10	116926	1	0115120	
ALTAIR 5X [DETECTOR MONO, (LEL, O ₂ , CO, H ₂ S, SO ₂)		10116927 10		0115141		
DELUXE KIT	S - COLOR DISPLAY, 10-FT SAMPLING LINE	, 1-FT P	ROB	E			
ALTAIR 5X [DETECTOR COLOR, (LEL, O ₂ , CO, H ₂ S)		10	116928	1	0115142	
ALTAIR 5X [DETECTOR COLOR, (LEL, O ₂ , CO, H ₂ S, SO ₂)		10116929 101151		0115143		
ALTAIR 5X [DETECTOR COLOR, (LEL, O ₂ , CO, H ₂ S, PID)		10165446		6		
ALTAIR 5X (GALAXY GX2 AUTOMATED TEST SYSTEM – I	N. Ameı	rica (Configurat	or	ı	
	1 CYLINDER, CHARGING		10128626				
	UP TO 4 CYLINDERS, CHAR		10128625				
	1 CYLINDER, NON-CHAR		10128628				
	UP TO 4 CYLINDERS, NON-CHAR						
CALIBRATIO		-	101				
Description				Part No.			
Description		34 L		58 L		116L	
1.4	5% CH4, 15% O₂, 60 PPM CO, 20 PPM H₂S	100482		10045035	5	10150595	
	, 15% O ₂ , 60 PPM CO, 20 PPM H ₂ S, 10 PPM SO ₂	100988		10117738		10150622	
	, -	34 L				100L	
	100 PPM ISOBUTYLENE	_				494450	
SENSOR SP	ARE PARTS/REPLACEMENTS						
	KIT, XCell Ex SENSOR, COMBUSTIBLE			10106722	_		
	KIT, XCell O₂ SENSOR		10106729				
	KIT, XCell CO/H₂S TWO-TOX SENSOR		10106725				
KIT, XCell CO/H₂S-LC TWO-TOX SENSOR			10121213				
KIT	KIT, XCell CO H ₂ -RES/H ₂ S TWO-TOX SENSOR		10121214				
	·		10121216				
	KIT, REPLACEMENT, HCN		10121217				
	KIT, XCell Cl ₂ SENSOR REPLACEMENT		10106728				
KIT, REPLACEMENT, CIO ₂			10080222				
	KIT, XCell SO₂ SENSOR REPLACEMENT		10106727				
	KIT, REPLACEMENT, NO ₂		10080224				
	,		10106726				
	KIT, REPLACEMENT, PH ₃ KIT, REPLACEMENT, NO	10116638 10114750					
	KIT, REPLACEMENT, PID 10.6EV SENSOR			10114730			
ACCESSORI	<u> </u>						
//CCL330111	USB IR RECEIVER			10082834			
	BATTERY PACK, ALKALINE			10114837			
CERTIFICAT	IONS/APPROVALS						
USA	Class I, Division 1, Groups A, B, C & D				Ī		
	Class II, Division 1, Groups E, F & G						
	Class III, Division 1 Ambient temperature: -40°C to +50°C: T4						
	ALTAIR 5X Multigas Detector with alkaline ba						
	ALTAIR 5X or ALTAIR 5X iR Multigas Detector w	ith recha	argea	ble battery	pa	ck T4	
CANADA	Class I, Division 1, Groups A, B, C & D CAN/CSA C22.2 No. 152 Combustible						
	Gas Detection Instruments						
	C22.2 No. 152 Performance Ambient Temperature: -20°C to +50°C						
	C22.2 No. 157 Intrinsic Safety Ambient Temperature: -40°C to +50°C ALTAIR 5X Multigas Detector with alkaline battery pack T3/T4						
	ALTAIR 5X Multigas Detector with alkaline ba ALTAIR 5X or ALTAIR 5X iR Multigas Detector w				ра	ck T4	
	·		-				