



IT'S WHAT'S INSIDE THAT COUNTS

ALTAIR 5X Multigas Detector With MSA XCell® Sensor Technology



Fully compatible with MSA Link Software and MSA Galaxy Automated Test System

Variety of optional MSA infrared sensors

Robust integral pump for consistent flow

High contrast color or monochrome display

18 language options

Large buttons for easy operation



Advanced MotionAlert and InstantAlert safety features

High performance MSA XCell Sensors

24-hour bump checkmark

End of XCell Sensor life warning

Durable, rubberized housing for secure grip

IT'S WHAT'S INSIDE THAT COUNTS

WORKERS who face potentially dangerous situations deserve the best protection available. At MSA, we work tirelessly to build smarter, better gas detection instruments that people across the world rely on. First we introduced MSA's advanced technology with the ALTAIR 4X Multigas Detector with XCell Sensors. Now we're proud to introduce the expansion of the most advanced technology available in any portable gas detector on the market:

the ALTAIR 5X Multigas Detector with XCell Sensor Technology.

Built on Durability

The ALTAIR 5X Multigas Detector for LEL, O2, and toxic gas detection is as tough and functional as it looks. A rugged 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 problems of externally-attached components. Ergonomic design, glove-friendly buttons, and high-contrast display make the ALTAIR 5X Multigas Detector easy to use in all applications.

Powered by Performance

Toughness and durability aren't the whole story. The real strength of the ALTAIR 5X Multigas Detector comes from new sensor technology. MSA XCell Sensors have a typical life of more than double the industry average, and are engineered using MSA's proprietary application-specific integrated circuit (ASIC) design. By miniaturizing the sensors' 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.

In addition to MSA XCell Sensors, the ALTAIR 5X Multigas Detector can also be equipped with our wide variety of IR sensors covering many gases and ranges including CO2.

Flexibility to Meet Your Needs

MSA's ALTAIR 5X Multigas Detector provides many options to fit various applications. The detector is configurable with either a high-resolution color or monochrome LCD display with multilingual capabilities. MSA's Logo Express® Service option is available to customize the color display. The detector is easily configurable with interchangeable plug-and-play sensor slots for MSA XCell Sensors. Up to six gases can be monitored simultaneously.

Furthermore, this multigas detector offers optional glow-in-the-dark instrument housing for IR sensor-equipped units. The ALTAIR 5x Multigas Detector's lithium-ion battery lasts up to 20 hours, allowing it to be used over multiple shifts. An alkaline battery pack is also available as an accessory. MSA's ALTAIR 5X Multigas Detector is fully compatible with the MSA GALAXY® Automated Test System and MSA Link™ Software.

"We liked how the total cost of ownership package was presented to us."

- Safety Director at energy company



MSA XCell O₂ Sensor

MSA XCell Ex Sensor, combustible



MSA XCell SO₂, Cl₂, or NH₃ Sensor

Additional exotic sensors: ClO2, HCN, PH3, NO2

MSA XCell CO/H₂ 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 EXPERTISE TO SUPPORT YOUR PORTABLE GAS DETECTION CHALLENGES.

MSA XCell Technology:

Save Time, Save Money, Save Lives

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

- New XCell exotic SO2, Cl2, and NH3 Sensors for expanded monitoring applications
- Sensor response and clear times in under 15 seconds for most common sensor configurations
- Bump test in under 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 capabilities 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, and SO2 sensors
- Typical life greater than three years for NH2 and Cl2 sensors
- Combustible sensor proprietary operating mode helps it stand up to poisons over the life of the sensor
- 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 and IR sensors

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

ORMANCE

Count on the ALTAIR 5X 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 to the disabled user's location. And with a simple push of a button, InstantAlert feature enables users to manually alert others to potentially hazardous situations.

The ALTAIR 5X 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 5X Multigas

average, so that you can depend on the ALTAIR 5X Multigas Detector to withstand the wear and tear that other portable gas detectors can't.

Online Training and Product Simulation

MSA's recent improvements to online training and Web content include the new ALTAIR 5X Multigas Detector media simulator which takes viewers through instrument operation. This tool is found at http://www.msanet.com/altair5x.

"The three-year warranty is huge."

- Safety Manager at energy company

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

Technical Specification	ons	
Gas type	Range	Resolution
Combustible	0-100%	LEL 1% LEL
Oxygen	0-30%Vol	0.1%Vol
Carbon monoxide	0-2000 ppm	1 ppm
Hydrogen sulfide	0-200 ppm	1 ppm
Sulfur dioxide	0-20 ppm	0.1 ppm
Chlorine	0-10 ppm	0.1 ppm
Ammonia	0-100 ppm	1 ppm
Nitrogen dioxide	0-20 ppm	0.5 ppm
Chlorine dioxide	0-1 ppm	0.01 ppm
Phosphine	0-5 ppm	0.1 ppm
Hydrogen cyanide	0-30 ppm	0.1ppm
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

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
	(without IR sensor)
Audible alarm	>95 dB typical
Visual alarm	2 ultra-bright LEDs
	on top
Vibrating alarm	Standard
MotionAlert & InstantAlert	Standard
features display	High-contrast
	monochrome or
	color display
Backlight	Adjustable time-out
Battery	Rechargeable li-ion
	or AA alkaline
Run time	20 hrs @ room
	temperature
Charging time	<= 6 hours
Operating temperature	-20 C to + 50C
Short-period operation	-40 C to + 50C
Humidity	15-90% RH
	non-condensing
Ingress protection	IP65
Data log	Adjustable
	200 hrs minimum
Event log	Standard 1000 events
Standard warranty	3 years on CO, H2S, LEL,
•	O2, SO2, and IR sensors
	2 years on NH3, Cl2 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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ALTAIR 5X Detector with 3-year warranty, monochrome display, data logging, charger, integral pump, and tubing		
	Approvals	

U.S.	Canada	Configuration
10116924	10115118	LEL, O ₂ , CO, H ₂ S
10116925	10115119	LEL, O ₂ , CO, H ₂ S, SO ₂
ALTAID EV Datast	au luadoratuial I/ita - u	a a a a abus mas disulare into avaluarem

LTAIR 5X Detector Industrial Kits - monochrome display, integral pump, 10 ft sampling line, and 1 ft probe

10116926 10115120 LEL, O₂, CO, H₂S 10116927 10115141 LEL, O₂, CO, H₂S, SO₂

ALTAIR 5X Detector Deluxe Kits - color display, integral pump, 10 ft sampling line, and 1ft probe

10116928 LEL, O₂, CO, H₂S 10115142 10116929 10115143 LEL, O₂, CO, H₂S, SO₂

Altair 5X Galaxy Automated Test System

North America	Global	Configuration
10090603	10090606	Standard system
10090602	10090605	Standard system with charging capability and cylinder holder
10090594	10090595	Smart system (memory card)
10090592	10090591	Smart system (memory card) with charging and cylinder holder

Calibration Gas

10048280	Calibration gas cylinder (34 l) 1.45% CH4, 15% O2, 60 ppm CO, 20 ppm H2S
10045035	Calibration gas cylinder (54 l) 1.45% CH4, 15% O2, 60 ppm CO, 20 ppm H2S
10117738	Calibration gas cylinder (58L), 1.45% CH4, 15% O2, 60 ppm CO, 20 ppm H2S, 10 ppm SO2
10098855	Calibration gas cylinder(34L), 1.45% CH4, 15% O2, 60 ppm CO, 20 ppm H2S, 10 ppm SO2

Replacement Sensors

10080222	CIO2 Sensor	10106726	XCell NH3 Sensor
10080224	NO2 Sensor	10106727	XCell SO ₂ Sensor
10106375	HCN Sensor	10106728	XCell Cl2 Sensor
10106722	XCell Ex Sensor, combustible	10106729	XCell O ₂ Sensor
10106725	XCell CO/H ₂ S Sensor	10116638	PH3 Sensor

Accessories

10082834	USB IR receiver	10114837	Battery pack, Alkaline
10088099	MSA Link Software CD		

Approvals

USA / Canada

Class I, Division 1, Groups A, B, C & D 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

battery pack T3/T4 ALTAIR 5X or ALTAIR 5X iR Multigas Detector

with rechargeable battery pack T4

USA / 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

with rechargeable battery pack T4

ALTAIR 5X Multigas Detector with alkaline

battery pack T3/T4 ALTAIR 5X or ALTAIR 5X iR Multigas Detector

Offices and representatives worldwide

For further information:





ALTAIR® 5X Multigas Detector Product Specification

PHYSICAL CHARACTERISTICS	
Gas delivery	Unit shall have integral pump that is not detachable and is capable of
	sampling up to 75 feet (22, 86 m) at 0.3 lpm.
Size, pumped unit without IR	Instrument shall not exceed 6.68"L x 3.52"Wx 1.95"H
	(16,9 cm L x 8,9 cm W x 4,2 cm H) in total size.
Size, pumped unit with IR	Instrument shall not exceed 6.68"L x 3.52"Wx 1.65"H
	(16,9 cm L x 8,9 cm W x 5,0 cm H) in total size.
Weight	Weight shall not exceed 1 lb (453 g) or 1.15 lbs (680 g) (IR version).
Handling	Unit shall be a one-hand operation device.
Case material	Unit shall have rugged rubberized armor.
Environmental protection	Instrument shall be minimum IP65-rated for dust and water ingress.
Display location	Instrument display shall be viewable from the front.

USER INTERFACES	
Display type	Liquid crystal, high-contrast display (LCD), (1.79" x 1.39")
	(4, 5 cm x 3,5 cm) with large icons should be visible in bright sunlight.
	Display shall be available in either color or monochrome options.
Backlight	Unit provides white backlight for low-light viewing. Backlight time-out to
	conserve power must be user-adjustable.
Keypad/switches	Unit must have no more than 3 pushbuttons to operate.
	Buttons must be easy to operate while gloves are worn.
Data access	Access to data log shall be non-intrusive using infrared links to Windows-
	ready PCs.

MONITORING CAPABILITY			
Sensor configuration	User shall be able to e	enable/disable individ	dual sensor channels.
Sensor missing alarm	All sensor channels p	rovide missing senso	r alarm if sensor has been
_	removed and sensor of	channel has not beer	n disabled.
Combustible gas display	Instrument shall be ca	pable of displaying o	combustible gas reading as %
	Lower Explosive Limit	(LEL) or 0-100% by	volume.
Pressure compensation	Instrument oxygen se	nsor shall have built-	in pressure compensation.
Sensor types	Instrument shall be av	ailable with the follo	wing gas sensing options:
	Gas type	Range	Resolution
	Combustible	0-100%	LEL 1% LEL
	Oxygen	0-30%Vol	0.1%Vol
	Carbon monoxide	0-2000 ppm	1 ppm
	Hydrogen sulfide	0-200 ppm	1 ppm
	Sulfur dioxide	0-20 ppm	0.1 ppm
	Chlorine	0-20 ppm	0.1 ppm
	Ammonia	0-100 ppm	1 ppm
	Nitrogen dioxide	0-20 ppm	0.5 ppm
	Chlorine dioxide	0-1 ppm	0.01 ppm
	Phosphine	0-5 ppm	0.1 ppm
	Hydrogen cyanide	0-30 ppm	0.1ppm
	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

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BASIC OPERATIONAL FEATURES		
Instrument buttons	Buttons on instrument must easy to operate with gloves on.	
Inadvertent shutoff	Instrument shall be designed to protect against accidental shutoff.	
Zero adjustments	Instrument shall provide Fresh Air Setup (FAS) function at user's	
	discretion.	
Zero adjustment safety lockout	FAS function shall not allow unit to zero out hazardous readings.	
Confidence signals	Instrument shall provide periodic audible and visual signals indicating	
	instrument operation.	
	User shall have option of disabling audible and visual signals if desired.	
Time/date	Instrument must be able to display time and date. User must be able to	
	reset time and date without tools.	
Last calibration date	Instrument must be able to display last successful calibration date.	
Instrument power-on	Power-on instrument button must be clearly marked.	

ADVANCED DISPLAY & SOFTWARE OPTIONS	
Industrial hygiene displays	Instrument shall have capability of displaying PEAK, STEL, and TWA at user's discretion. User shall have ability to enable/disable STEL and TWA functions.
Instrument settings	All settable instrument parameters (alarm set points, expected calibration gas values, etc.) shall be protected by user-selectable password.
Reset of functions	User shall be provided with capability of resetting PEAK, STEL, and TWA readings in the field.
Measurement units	Unit shall be capable of displaying both types of gas sensors installed and measurement units for each gas.

INCTRUMENT AL ADMO	
INSTRUMENT ALARMS	
MotionAlert™ feature	Instrument shall offer standard MotionAlert feature. When activated,
	instrument shall eventually go into latch alarm when no instrument
	movement is detected for 30 seconds.
InstantAlert [™] feature	Instrument shall have InstantAlert feature to allow users manual activation
	of all alarms if situation requires.
Visual alarms	Visual alarms shall consist of bright, flashing LEDs on top and bottom of
	instrument, and positive indication on unit's display for alarm type
	identification.
Audible alarm	Audible alarm shall be rated at a typical >95 dB.
Vibrating alarm	Unit shall be offered with standard vibrating alarm.
Lock alarm™ Circuit feature	Catalytic combustible channel shall have non-resettable latching alarm
	when combustible gas level exceeds 100% LEL, or 5.00%Vol CH4 when
	no 0-100%Vol CH4 IR sensor is installed.
Auto recover feature	Catalytic combustible channel shall auto recover from Lockalarm Circuit
	situation if 0-100 %Vol CH4 IR sensor is installed, and reading is back to
	low methane levels.
Oxygen alarms	Oxygen channel shall have alarm set points for both oxygen deficiency
, ,	and oxygen enrichment.
Alarms set points	Alarm set points must be user-settable.
STEL and TWA alarm	Instrument shall provide audible, visual, and vibrating alarms if STEL or
	TWA levels are exceeded. Alarm set points for STEL and TWA shall be
	user-selectable.
Battery alarms	Monitor shall provide user with 10-minute warning of battery power loss in
,	all environmental conditions. Power consumption alarms shall activate
	audible, visual, and vibrating alarms.
	ı , , ,

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INSTRUMENT POWER	
Run time	Instrument run time shall be at least 20 hours at room temperature.
Power supply	Instrument shall be equipped with rechargeable lithium-ion battery and
	have alkaline option available (non-IR equipped units).
Battery life indication	Monitor shall provide icon depicting estimated remaining battery operation
	time. Battery icon must always be visible when instrument is powered on.
Charging cradle	Optional charging cradle shall be offered.
Charger input voltages	Chargers shall be available for 110VAC/220 VAC and 12-24 VDC.
Charging status	Both instrument and charging cradle shall provide visual indication of
	battery charging status.

CALIBRATION			
Calibration tools	Unit shall require no special tools for calibration other than cylinder,		
	regulator, and tubing to supply	y gas to instrument.	
Calibration access	Calibration access can be hid	Calibration access can be hidden behind password when desired.	
Pushbutton calibration		formed using instrument's push buttons. tools shall not be necessary for calibration.	
Calibration time	Span calibration shall not exceed 60 seconds for LEL, O2, CO, H2S, and SO2. Other gases shall not exceed the following span calibration times.		
	Gas type	Span time	
	Chlorine	2 minutes	
	Ammonia	2 minutes	
	Nitrogen dioxide	4 minutes	
	Chlorine dioxide	6 minutes	
	Phosphine	4 minutes	
	Hydrogen cyanide	4 minutes	
Automatic calibration	Instrument shall be compatible with optional automated test and with		
	calibration system able to stor	re data.	
	External system shall automa	tically recognize and calibrate instrument and	
	retain all calibration records.		

SAMPLING SYSTEMS	
Sampling modes	Instrument shall be available with internal pump.
Sampling systems filters	Pump must contain user-replaceable filters to prevent liquids and dust ingress.
Allowable sample line length	Instrument must be capable of sample draw from 50 feet away within 9 seconds or from 80 feet (24, 38 m) within 15 seconds.
Fluid ingress protection	Sample probe shall be offered that is designed to prevent water and debris from entering instrument.
Reactive gas monitoring	Special sample probe shall be offered when used with Cl2, NH3, and ClO2.

SENSOR CHARACTERISTICS AND PERFORMANCE		
Sensor life	LEL, oxygen, CO, H2S, and IR sensors shall have expected 4-year life.	
	NH3, SO2, Cl2 senso	rs shall have expected 3-year life.
End-of-life sensor indicator	Instrument shall notify user when sensor is close to and at its end-of-life,	
	following calibration.	
Typical t(90) response times ¹	Combustible sensor	<10 seconds (methane)
		< 15 seconds (pentane)
	Oxygen sensor	< 10 seconds
	CO sensor	< 15 seconds
	H2S sensor	< 15 seconds
	NH3 sensor	< 40 seconds
	SO2 sensor	< 10 seconds
	Cl2 sensor	< 30 seconds
	IR CO2	< 35 seconds
	IR CH4	< 34 seconds
	IR C4H10	< 35 seconds

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All sensors	All sensors should have built-in/dedicated control circuitry, including drive circuits, memory, microprocessor, and analog-to-digital converter to all for sensor level control and compensation.
Oxygen sensor	Oxygen sensor shall be lead-free and use a non-consumable chemical reaction.
Combustible sensor	Combustible sensor must have at minimum the following poison resistance: 3000 ppm*hours to H2S 90 ppm*hours to silicon
CO / H2S Sensor	CO / H2S sensor shall be designed with extremely robust carbon filter for CO channel to block interference. Sensor shall be designed for virtually no cross-channel interference.
NH3 Sensor	NH3 sensor shall use non-consuming chemical reaction and self-recover after significant gas exposures. Sensor shall have 3-year or greater expected life.
SO2 Sensor	SO2 sensor shall have response time of 10 seconds or less, use non- consuming chemical reaction, and self-recover after significant gas exposures. Sensor shall have a 3-year or greater expected life.
Cl2 Sensor	Cl2 sensor shall have minimal drift even under dry conditions. Sensor shall have virtually no cross-interference with CO, H2S, and SO2. Sensor shall have 3-year or greater expected life.
IR Sensors	IR sensor shall not rely on mirror to obtain appropriate path length, as mirrors are very susceptible to humidity and to condensing atmospheric conditions.

¹ All response times are calculated using manufacturer-recommended operation.
² Dirt, dust, and cleanliness of sampling line can and will impact response time.

DATA LOGGING (INSTRUMEN	T DATA STORAGE)
Data logging	Instrument must be available with standard data logging.
Event log	Instrument shall record at least 1000 events.
Data log capacity	Data log shall record and store data for average of 200 hours (at 1-minute intervals) without overwriting existing information during normal use.
Gas record content	Data log entries shall contain as minimum date, time, and record of peak and average readings for each gas sensor (oxygen shall be recorded as maximum and minimum for these intervals).
Atmospheric record	Instrument shall have provisions to record atmospheric temperature changes.
Record intervals	Time span among data records shall be user-selectable from 15 seconds to 15 minutes.
Data retention	Instrument data stored in memory shall not be lost or corrupted in event of sudden instrument power loss.
Activity record Content page	Instrument data log shall record and be capable of reporting significant instrument events including: • Gas and battery alarms • Fresh air setups, sensor re-zeroing, and calibrations • Battery voltage and elapsed run time

CERTIFICATIONS	
North America	USA / UL
	Class I, Division 1, Groups A, B, C & D 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 battery pack T3/T4 ALTAIR 5X or ALTAIR 5X iR Multigas Detector with rechargeable battery pack T4
	Canada CSA – Pending
	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

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	ALTAIR 5X Multigas Detector with alkaline battery pack T3/T4 ALTAIR 5X or ALTAIR 5X iR Multigas Detector with rechargeable battery pack T4
Europe	ATEX Directive 94/9/EC ALTAIR 5X Multigas Detector: II 2G Ex d ia mb IIC Gb IP65 – Zone 1 when XCell Ex sensor is installed. II 1G Ex ia IIC Ga IP65 – Zone 0 when XCell™ Ex Sensor is not installed. ALTAIR 5X Multigas Detector with rechargeable battery pack T4 I M1 Ex ia I Ma
	ALTAIR 5X iR Multigas Detector II 2G Ex d e ia mb IIC T4 Gb IP65 CE 0080 Directive 2004/108/EEC (EMC): EN 50270 Type 2, EN61000-6-3
Australia / New Zealand	ANZEx Australia/New Zealand - Test Safe Australia ALTAIR 5X & ALTAIR 5X iR Multigas Detector Ex ia sa IIC T4 (Zone 0) IP65 ALTAIR 5X Multigas Detector with alkaline battery pack T3/T4 ALTAIR 5X or ALTAIR 5X iR Multigas Detector with rechargeable battery pack T4 Ex ia sa I (Zone 0) IP65
	IECEx - Test Safe Australia ALTAIR 5X & ALTAIR 5X iR Multigas Detector Ex ia mb d IIC IP65 – Zone 1 when XCell Ex sensor is installed. Ex ia IIC IP65 – Zone 0 when XCell™ Ex Sensor is not installed.
	ALTAIR 5X Multigas Detector with alkaline battery pack T3/T4 ALTAIR 5X or ALTAIR 5X iR Multigas Detector with rechargeable battery pack T4 Ex ia I IP65 – Zone 0
Manufacturing system quality approvals	Instrument manufacturer must be certified as compliant with ISO 9001 provisions.

ENVIRONMENTAL	
Temperature	Normal operation: 0° to 40° C
	Extended: -20° to 50° C
	Short periods (15 minutes): -40° to +50° C
Humidity	15-90% RH (non-condensing) continuous
	5-95% RH (non-condensing) for short periods.

MAINTENANCE & WARRANTIES		
Sensor replacement	Sensors shall be easily accessed and replaced by users if desired by purchaser.	
Warranty, consumables	Instrument shall have 3-year back-to-back warranty under normal use conditions, including CO/H2S/LEL/O2/SO2/IR sensors. NH3 and Cl2 shall be warranted for 2 years. Other sensors shall be warranted for at least 12 months.	

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ALTAIR® 5X Multigas Detector

With MSA XCell® Sensor Technology

IT'S WHAT'S INSIDE THAT COUNTS





MSA's new ALTAIR 5X Multigas Detector is driven by the most advanced technology available in any portable gas detector on the market. Breakthroughs in design improve performance and ensures that the ALTAIR 5X Multigas Detector outlasts the competition.

Built on Durability

- Only instrument in its class with internally-integrated pump
- Full three-year warranty on LEL, O2, H2S, CO, SO2, and IR sensors
- Rugged housing
- Withstands 10-foot drop test
- Easy to operate

Powered by Performance

- Four-year sensor life on LEL, O2, CO, H2S, SO2, and IR sensors 60% longer than industry average
- Three-year sensor life on NH3 and Cl2
- MSA-exclusive instrument end-of-sensor-life warning
- MSA-exclusive MotionAlert™ & InstantAlert™ features
- 40% less calibration gas used per minute than industry average

Flexibility to meet your Needs

- Interchangeable plug-and-play sensor slots (XCell sensors)
- Color or monochrome display options
- Monitors up to six gases simultaneously

Revolutionizing Sensor Technology

- Industry-first 60-second span calibration time for LEL, O2, CO, H2S, and SO2
- Sensor response and clear times in under 15 seconds on LEL, O2, CO, H2S, and SO2 – 50% faster than industry average
- Typical cost savings of over 50% on calibration gas, replacement sensors, and maintenance
- Greater signal stability and repeatability under changing or extreme environmental conditions

ALTAIR 5X Detector with three-year warranty, monochrome display, data logging, charger, integral pump, and tubing

Approvals				
U.S.	Canada	Configuration		
10116924	10115118	LEL, O ₂ , CO, H ₂ S		
10116925	10115119	LEL, O ₂ , CO, H ₂ S, SO ₂		
ALTAIR 5X Detector Industrial Kits - monochrome display, integral pump, 10 ft sampling line, and 1 ft probe				
10116926	10115120	LEL, O ₂ , CO, H ₂ S		
10116927	10115141	LEL, O ₂ , CO, H ₂ S, SO ₂		
ALTAIR 5X Detector Deluxe Kits - color display, integral pump, 10 ft sampling line, and 1 ft probe				

10116928	10115142	LEL, O ₂ , CO, H ₂ S
10116929	10115143	LEL, O_2, CO, H_2S, SO_2

