

IT'S WHAT'S INSIDE THAT COUNTS

ALTAIR 4X Multi-Gas Detector with MSA XCell Sensor Technology





PERFORMANCE BEYOND WHAT YOU SEE

OUR VISION OF SAFETY. 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 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 Multi-Gas Detector with XCell Sensor Technology.**

Built on Durability

The ALTAIR 4X Multi-Gas Detector for LEL, CO, H_2S and O_2 is as tough and functional as it looks. A rugged housing IP 67 (dust and water resistant) provides unsurpassed durability, including the ability to withstand a 6 m drop onto concrete. And with large, glove-friendly buttons and a high-contrast display, the ALTAIR 4X Multi-Gas 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 Multi-Gas Detector comes from new sensor technology. MSA XCell Sensors are designed for an average life of more than four years 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 under extreme environmental conditions, accuracy and repeatability.

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

Exclusive safety features like MotionAlert and InstantAlert make the ALTAIR 4X Multi-Gas 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 detector comes with a full three-year warranty, so you can depend on the ALTAIR 4X Multi-Gas 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





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

Adding micro-electronics inside the sensors provides more control and higher performance than previous generations

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

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

- Sensor response and clear times under 15 seconds
- Bump test under 15 seconds
- Span calibration time under 60 seconds
- 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 year
- Laser-welded sensor housings eliminate opportunities for leaks
- Proprietary operating mode of the combustible sensor helps it stand up to poisons over the life of the sensor
- End-of-sensor-life indicator gives advanced warning to the user, eliminating 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 and ALTAIR 4 QuickCheck Station
- MSA Link Software-ready
- Global approvals for worldwide acceptance

Lasting Durability

- Full three-year warranty supports the entire detector, including the sensors and battery
- Withstands extreme impacts with rugged polycarbonate housing
- Passes 6 m drop test
- The IP 67-rated ALTAIR 4X is both dust tight and water tight

Applications/Markets

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



New glow-in-thedark housing for confined spaces applications





Technical Specifications		
Gas	Range	Resolution
LEL	0-100%	1%
O ₂	0-30% vol	0.1% vol
CO	0-1999 ppm	1 ppm
H ₂ S	0-200 ppm	1 ppm

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H ₂ S	0-200 ppm	1 ppm
	Drop test	6 m
	Housing	Rugged rubberised
		armour
	Weight	222 g
D	imensions (H x W x D)	112 x 76 x 35 mm
	Audible alarm	>95 dB at 30 cm
	Visual alarm	4 ultra-bright LEDs
		on top and bottom
	Vibrating alarm	Standard
Motio	onAlert & InstantAlert	Standard
	Display	High-contrast LCD
	Backlight	Adjustable time-out
	Battery	Rechargeable
		li-polymer
	Run time	24 hour @
		room temperature
	Charging time	< 4 hrs
Operatir	ng temperature range	-20 °C to $+50$ °C
S	hort period operation	-40 °C to $+60$ °C
	Humidity	15-90% RH
		non-condensing
	Ingress protection	IP67
	Data log	Standard, 50 hours
		minimum
	Event log	Standard 500 events

Approvals

ATEX:

II 1G Ex ia IIC T4, -40 °C to +60 °C, IP 67 (Zone 0 with no combustible sensor installed) II 2G Ex ia d IIC T4, -40 °C to +60 °C, IP 67 (Zone 1 with combustible sensor installed)

3 years

Optional 1 year

Standard warranty

Extended warranty

ALTAIR 4X with quick-start card, data logging, charger, calibration cap and tubing		
ATEX Approval	Configurations	Housing Color
10110453	LEL, O ₂ , CO, H ₂ S	Charcoal
10110456	LEL, O ₂ , CO, H ₂ S	Phosphorescent
10110454	LEL, O ₂ , CO	Charcoal
10110457	LEL, O ₂ , CO	Phosphorescent
10110455	LEL, O ₂	Charcoal
10110458	LEL, O ₂	Phosphorescent

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10053022 Gas can (58 l) 1.45% CH_4 , 15% O_2 , 60 ppm CO, 20 ppm H_2S

Replacement Sensors		
10106722	XCell Ex combustible sensor	
10106729	XCell O₂ sensor	
10106725	XCell CO/H₂S two-tox sensor	
10106724	XCell CO sensor	
10106723	XCell H₂S sensor	

ALTAIR 4 QuickCheck Station

The ALTAIR 4 QuickCheck Station performs bump and function tests in less than one minute, significantly trimming daily required preparation time for large ALTAIR 4X Multi-Gas Detector fleets. Keeps costs down with less up-front hardware expense and calibration gas.

Europe	
10101556	30% tolerance range
10075893	Regulator
10101085	Cylinder holder assembly
10049410	Vehicle charger

GALAXY Kits		
10090001	Standard system, charger	
10089966	Smart system (with memory card), charger & cylinder holder	

Accessories	
10047596	Universal pump probe (ATEX)
10086638	European power supply
10088099	MSA Link Software CD-ROM
10082834	JetEye IR Adapter with USB connector
10095774	Vehicle charger

Your direct contact

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