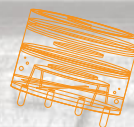


ALTAIR® 2X Gas Detectors

It's what's inside that **really** counts



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

The ALTAIR 2X Gas Detector

The ALTAIR 2X Gas Detector is the first one or two gas detector that incorporates industry-leading XCell Sensor Technology to deliver unparalleled performance while drastically minimizing total cost of ownership, increasing durability and delivering enhanced worker safety, compliance and traceability.

The ALTAIR 2X is also the first portable gas detector to introduce revolutionary XCell Pulse Technology. Based on proven science and advanced patented sensor capabilities, the ALTAIR 2XP Detector delivers the world's first stand-alone bump test. This allows a daily bump test to be performed without the need for calibration accessories or specific calibration gas.

It's what's inside that counts!

ALTAIR 2XP Gas Detector – with XCell Pulse Technology

First stand-alone bump test!

The ALTAIR 2XP Gas Detector provides a bump test that is so easy to follow, anyone can do it, from anywhere! The science behind this first-of-its-kind technology will change the face of portable gas detection as we know it.

By combining pulse sensor interrogation with a simple flow check, we've created the first successful stand-alone bump test. PULSE sensor interrogation begins, exhale into the unit. And the result? You're BUMPED!

ALTAIR 2XT – Two-Tox Gas Detector

The ALTAIR 2XT Detector eliminates the need for a second detector by utilizing proven XCell Two-Tox Sensors. XCell Two-Tox Sensors detect two gases on distinct sensor channels with digital output that minimizes cross channel interference.

ALTAIR 2X – Single Gas Detector

MSA revolutionized gas detection with XCell Sensor Technology. By miniaturizing the sensors' controlling electronics and placing them inside the sensor itself using MSA's proprietary application-specific integrated circuit (ASIC) design, MSA XCell Sensors offer superior stability, accuracy, and sensor life.



MSA XCELL SENSORS HAVE A TYPICAL LIFE OF MORE THAN FOUR YEARS, –THAT'S DOUBLE THE INDUSTRY AVERAGE – AND PROVIDE SUPERIOR STABILITY, ACCURACY AND RESPONSE.

Compliance, Traceability and Simplicity without Compromising Safety!

Don't Leave Safety to Chance!

- The industry best practice of conducting a bump test prior to each day's use is easily achieved with the ALTAIR 2XP. Bump anywhere, any time, without bottled gas or accessories.
- Visual indicators on the detector make verification of bump test easy
 - Highly visible green light (green light, check mark)
 - Flashes red when not bumped
- The ALTAIR 2X family of detectors have full instrument traceability of bump and calibration records, peak readings, event logs and data logs.

Increase your safety compliance and promote worker confidence!



INSTRUMENT RECORDS ARE STORED and can be easily downloaded during periodic gas calibrations using the Galaxy GX2 test stand. MSA Link Pro Software provides full networking, traceability, proactive safety, compliance, and reporting.



GLOW-IN-THE-DARK VERSION
FOR LOW LIGHT APPLICATIONS
AND EASIER FLEET MANAGEMENT
OF MULTIPLE DETECTOR SETTINGS.

MSA GALAXY GX2 Test Report

Test Type:	Calibration
Test Result:	Passed
Test No.:	1
Company:	
Serial No.:	
User:	
Department:	
Set Points:	Low

Lower Total Cost of Ownership

MSA's industry leading technology combined with product durability means that the ALTAIR 2X Gas Detector provides a lower total cost of ownership than competitive instruments and will pay for itself quickly.

Built Tough

Like all MSA detectors, ALTAIR 2X is built for durability and designed for the work that is being completed.

- Withstands extreme impacts with rugged polycarbonate housing and passes 7,62 m (25 foot) drop test
- IP 67-rated ALTAIR 2X is both dust tight and water tight
- Minimal RF interference
- Full three-year warranty supports the entire instrument, including the sensors.

Reduced Costs and Expense

- XCell Sensor response and recovery time reduces the gas consumption for calibration and gas bump tests (where applicable).
- The ALTAIR 2XP with XCell Pulse Technology reduces the need for specific calibration gas and bump test accessories to provide providing significant savings!
- The ALTAIR 2XT Two-Tox eliminates the need for a second instrument in several applications.

Increased Productivity

- Skip the gas line! – The stand-alone bump test on the ALTAIR 2XP means that you will be spending more time doing the job and less time waiting in line or conducting bump tests. Spending less time at the bump station means less down time and more time producing!
- Faster bump tests, easy compliance and product reliability means you can get to work faster and safer!





XCell® Pulse Technology

With our patented XCell Pulse Technology, we have created a simple and inexpensive approach to bump testing. Years of scientific research, patented sensor interrogation technology and proprietary sensor response methodologies have delivered the world's first gas detector with a *stand-alone bump test*. Simply put; the use of calibration accessories or bottled calibration gas is not required for bump testing the ALTAIR 2XP Gas Detector.

How does it work? When the detector is turned on, it automatically begins an electronic pulse check that activates the sensor catalyst and electrolyte interaction and makes minor corrections against prior calibration values. Next the user completes a flow check by exhaling toward the sensor inlet. An oxygen detector embedded in the sensor, that is only active during the pulse and flow check, detects the drop in oxygen content of exhaled breath. If both of these checks pass, the detector passes the bump test.



UNIQUE PULSE CHECK

AUTOMATICALLY CHECKS SENSOR RESPONSE AND CORRECTS FOR SENSOR INTEGRITY.
(ALTAIR 2XP DETECTOR ONLY)

95 DB ALARM –

WITH RED LED INDICATORS AND VIBRATING ALARM



A CHECK MARK AND

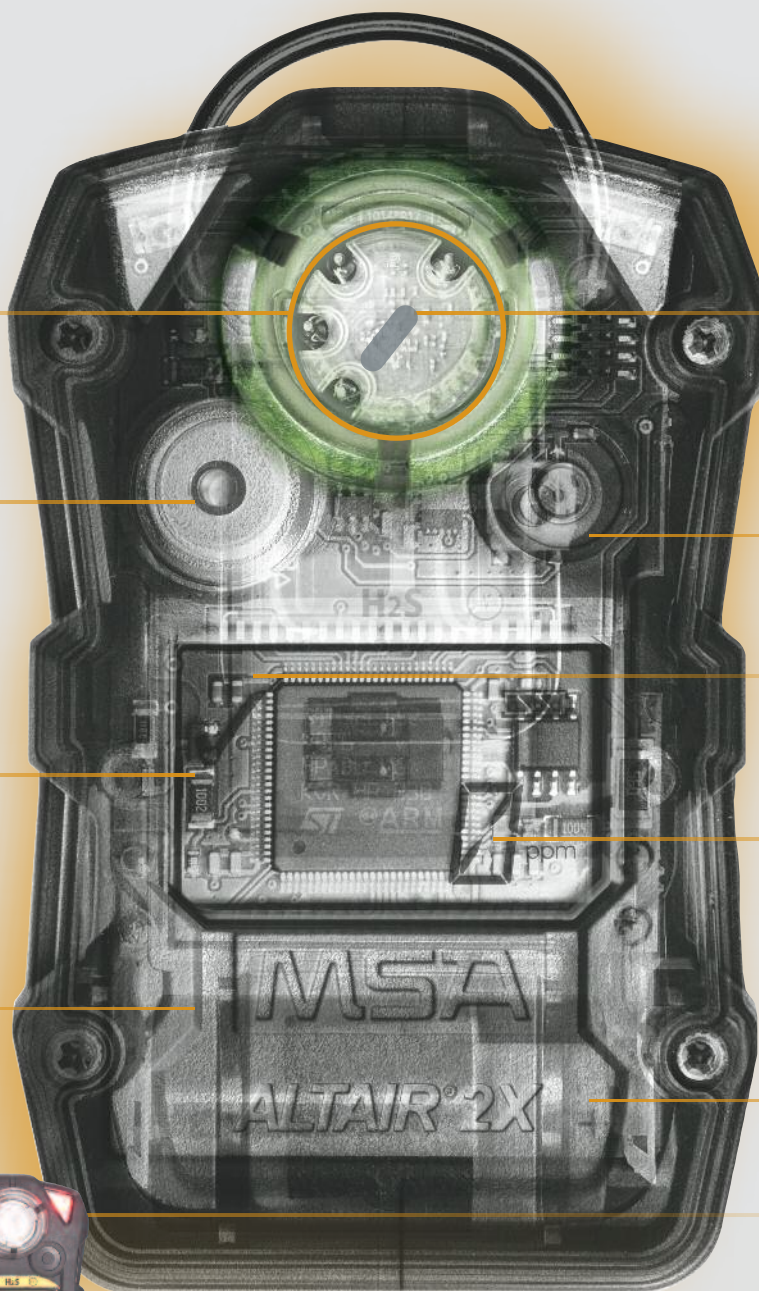
GREEN LED INDICATOR MEANS YOU ARE BUMPED AND READY TO GO

DURABILITY – IP 67 DESIGN

AND INTRINSICALLY SAFE CONSTRUCTION SURVIVES 7,6 M (25 FT) DROP TEST

RED LED INDICATORS

SHOW THAT THE INSTRUMENT HAS NOT BEEN BUMP TESTED



A SIMPLE EXHALED BREATH

VERIFIES THAT SENSOR FLOW PATH IS CLEAR TO ENSURE THAT GAS REACHES THE SENSOR. (2XP ONLY)

EASY ONE-BUTTON,

GLOVED-HAND OPERATION

END OF SENSOR LIFE

INDICATOR



LARGE, HIGH CONTRAST

DISPLAY SHOWS PPM AND VISUAL SENSOR STATUS

DURABLE, RUBBERIZED

HOUSING FOR SECURE GRIP



Technical Specifications

Size	89 x 54 x 25 mm (LxWxD without clip)
Weight	113 g w/ clip
Housing	Rugged rubberized armor
Ingress protection	IP67
Drop test	7,6 m
Handling	One-handed, one-button operation
Bump test indicators	Pass: Green LED flash & checkmark Fail or expiration: Red LED flash only
Audible alarm	95 dB at 30 cm
Visual alarm	Ultra-bright LEDs
Vibrating alarm	Standard
Display	Large-character monochrome LCD
Backlight	10s backlight w/ adjustable timeout
Battery	Replaceable lithium battery
Extended temp. range	-20 °C to +50 °C
Extreme range	-40 °C to +60 °C
Data log	2X/2XP: > 150 hrs 2XT: > 100 hrs
Event log	75 events
Standard Warranty	Chassis & electronics: 3 years Cl ₂ & NH ₃ sensors: 2 years All other sensors: 3 years Does not cover consumable parts.

Certifications/Approvals

USA	cCSAus Class I Div 1 Groups A, B, C, D Class II Div 1 Groups E, F, G Class III Tamb = -40C to +60C T4 USA: UL 913 7th Edition Canada: CSA 22.2 No. 157
ATEX	FTZU II 2G Ex ia IIC T4 Gb -40C to +60C
IEC/Australia/ New Zealand	FTZU Ex ia IIC T4 Gb -40C to +60C

Ordering Information

Detector Type (Low, High Alarm in ppm)	Charcoal	GLOW-IN-THE-DARK	REPLACEMENT SENSOR
ALTAIR 2 (Low, Hi Alarm in PPM) XP – with XCell Pulse Technology			
H ₂ S-Pulse (10, 15)	10153984	10154188	10121227
ALTAIR 2XT Two-Tox Gas Detector			
CO/H ₂ S (CO: 25, 100; H ₂ S: 10, 15)	10154040	10154181	10152603
CO-H ₂ /H ₂ S* (CO: 25, 100; H ₂ S: 10, 15)	10154071	10154182	10152604
CO/H ₂ S-LC* (CO: 25, 100; H ₂ S: 5, 10)	10154072	10154183	10152605
CO/NO ₂ * (CO: 25, 100; NO ₂ : 2.5, 5)	10154073	10154184	10152606
SO ₂ /H ₂ S-LC (SO ₂ : 2, 5; H ₂ S: 10, 15)	10153985	10154190	10152607
ALTAIR 2X Single Gas Detector			
CO (25, 100)	10153986	10154185	10152603
CO-H ₂ * (25, 100)	10154074	10154186	10152604
CO-HC* (25, 100)	10154075	10154187	10152602
H ₂ S-LC* (5, 10)	10154076	10154189	10152605
SO ₂ (2, 5)	10154077	10154191	10152607
NO ₂ * (2.5, 5)	10154078	10154192	10152606
NH ₃ * (25, 50)	10154079	–	10152601
Cl ₂ * (0.5, 1)	10154080	–	10152600

Calibration Gas

DESCRIPTION	PART NUMBER	
	34 L	58 L
60PPM CO, 20PPM H ₂ S	10154976	10154977
60PPM CO, 10 PPM NO ₂	10154978	10154980
20 PPM H ₂ S, 10 PPM SO ₂	10154995	10154996
20 PPM H ₂ S	10155919	10155918

ACCESSORIES

Galaxy GX2 for ALTAIR, 1 valve, EU	10128653
Electronic Cylinder Holder	10105756
Alcohol-Free Instrument Wipes	10154893

* Contact MSA for Availability

Your direct contact

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