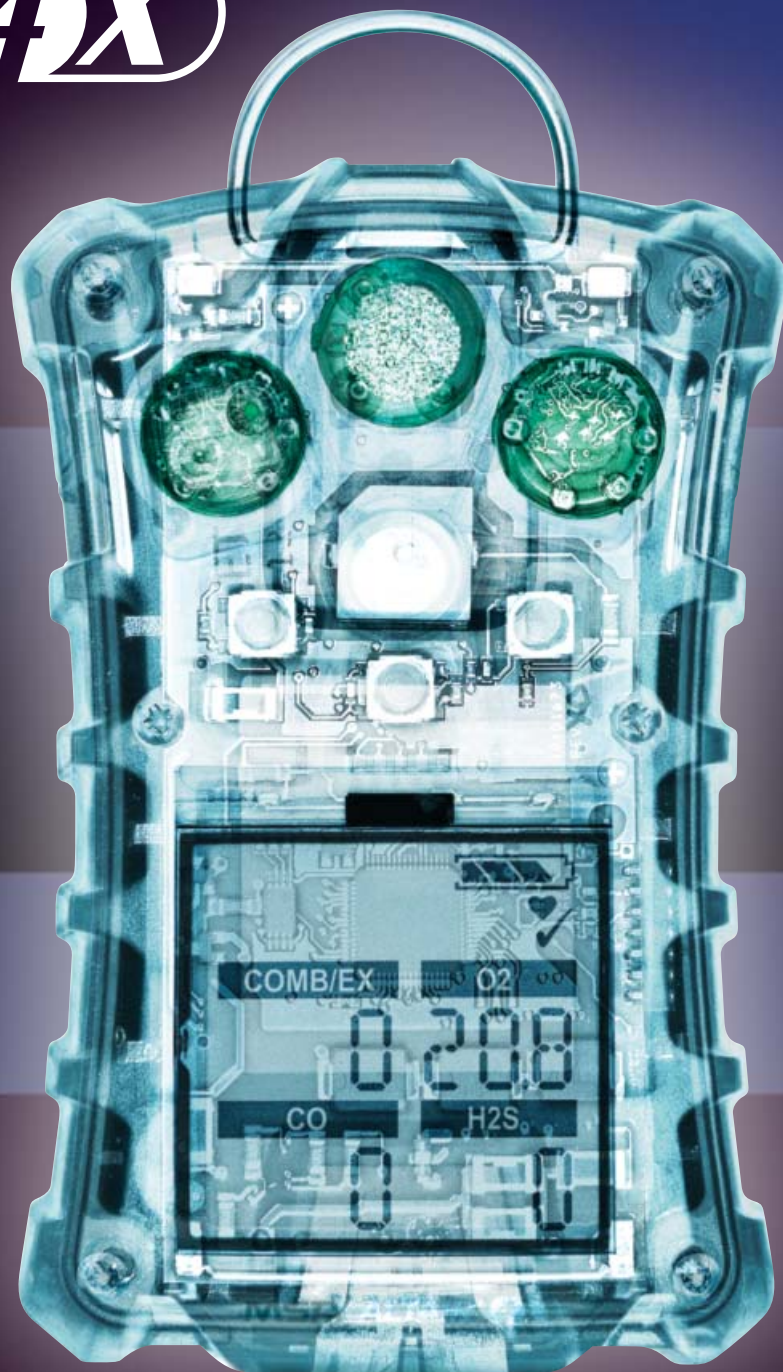


ALTAIR[®] 4X

IT'S WHAT'S INSIDE THAT COUNTS

ALTAIR 4X Multigas Detector
With MSA XCell[®] Sensor Technology



MSA
The Safety Company

IT'S WHAT'S INSIDE THAT COUNTS

OUR VISION OF SAFETY Workers who face potentially hazardous 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 Multigas Detector with XCell Sensor Technology.

Built on Durability

The ALTAIR 4X Multigas Detector for LEL, CO, H₂S and O₂ is as tough and functional as it looks. A rugged housing provides unsurpassed durability, including the ability to survive a 20-foot drop. And with large, glove-friendly buttons and a high-contrast display, the ALTAIR 4X Multigas 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 Multigas Detector comes from new sensor technology. MSA XCell Sensors have a typical life of more than four years, double the industry average, and are engineered using MSA's proprietary application-specific integrated circuit (ASIC) design. By miniaturizing sensor 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.

Count on the ALTAIR 4X Detector

Exclusive safety features like MotionAlert™ and InstantAlert™ make the ALTAIR 4X Multigas 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 ALTAIR 4X 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 4X Multigas Detector to withstand the wear and tear that other portable gas detectors can't.

XCell[®]

S E N S O R S

MSA XCell
Combustible Sensor

MSA XCell
CO/H₂S Sensor

MSA XCell
Oxygen 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 KNOWLEDGE TO SUPPORT YOUR PORTABLE GAS DETECTION CHALLENGES.

MSA XCell Technology:

Save Time, Save Money, Save Lives

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

- Sensor response and clear times in less than 15 seconds
- Bump test in less than 15 seconds
- 60-second span calibration time
- 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 years
- Laser-welded sensor housings eliminate opportunities for leaks
- Combustible sensor's proprietary operating mode enhances poison resistance over the sensor's life
- End-of-sensor-life warning gives advanced notice to user, reducing 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
- MSA Link™ Pro and MSA Link Software-ready
- Global approvals for worldwide acceptance

Lasting Durability

- Full three-year warranty supports the entire instrument, including sensors and battery
- Withstands extreme impacts with rugged polycarbonate housing
- Passes 20-ft drop test
- IP67-rated ALTAIR 4X Detector is both dust- and water-tight

Applications

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



New glow-in-the-dark housing for mining or confined spaces applications

MSA



■ MSA-exclusive feature

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 |

| | |
|--|---------------------------------------|
| Drop test | 20 ft |
| Housing | Rugged rubberized armor |
| Weight | 7.9 oz |
| Dimensions (L x W x D) | 4.4 x 3.0 x 1.31 |
| Audible alarm | >95 dB at 1 ft |
| Visual alarm | 4 ultra-bright LEDs on top and bottom |
| Vibrating alarm | Standard |
| MotionAlert & InstantAlert | Optional |
| Display | High-contrast LCD |
| Backlight | Adjustable time-out |
| Battery | Rechargeable li-polymer |
| Run time | 24 hours @ room temperature |
| Charging time | < 4 hrs |
| Operating temperature range | -10° C to +40° C |
| Extended temperature range | -20° C to +50° C |
| Short period (15 minutes) temperature range | -40° C to +60° C |
| Humidity | 15 – 90% RH non-condensing |
| Ingress protection | IP67 |
| Data log | (adjustable) 50-hour minimum |
| Event log | Standard 500 events |
| Standard warranty | 3 years |
| Extended warranty | Optional 1-year |

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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FAX 724-741-1553

ALTAIR 4X Detector with 3-year warranty, data logging, charger, calibration cap, and tubing

Approvals

| U.S./CAN | ATEX | ANZ | Configuration | Case Color |
|----------|----------|----------|---|----------------|
| 10107602 | 10110453 | 10110447 | LEL, O ₂ , CO, H ₂ S | Charcoal |
| 10107603 | 10110456 | 10110450 | LEL, O ₂ , CO, H ₂ S | Phosphorescent |
| 10110443 | 10110454 | 10110448 | LEL, O ₂ , CO | Charcoal |
| 10110445 | 10110457 | 10110451 | LEL, O ₂ , CO | Phosphorescent |
| 10110444 | 10110455 | 10110449 | LEL, O ₂ | Charcoal |
| 10110446 | 10110458 | 10110452 | LEL, O ₂ | Phosphorescent |
| 10148343 | — | — | LEL, O ₂ , CO, H ₂ S-LC | Charcoal |

ALTAIR 4X Detector, 4-gas, in black case with calibration cylinder and 0.25 lpm regulator

| U.S./CAN Approval | Configuration | Case Color |
|-------------------|--|------------|
| 10110488 | LEL, O ₂ , CO, H ₂ S | Charcoal |

ALTAIR 4X GALAXY GX2 Automated Test System

| N. America | EU | UK | AUS | Configuration |
|------------|----------|----------|----------|---------------------------------|
| 10128630 | 10128639 | 10128659 | 10128669 | 1 cylinder, charging |
| 10128629 | 10128638 | 10128658 | 10128668 | Up to 4 cylinders, charging |
| 10128642 | 10128651 | 10128661 | 10128671 | 1 cylinder, non-charging |
| 10128641 | 10128640 | 10128660 | 10128670 | Up to 4 cylinders, non-charging |

Calibration Gas

| | |
|----------|---|
| 10048280 | Gas cylinder (34 l) 1.45% CH ₄ , 15% O ₂ , 60 ppm CO, 20 ppm H ₂ S |
| 10045035 | Gas cylinder (54 l) 1.45% CH ₄ , 15% O ₂ , 60 ppm CO, 20 ppm H ₂ S |

Replacement Sensors

| | |
|----------|--|
| 10106722 | XCell Ex Combustible Sensor |
| 10106729 | XCell O ₂ Sensor |
| 10106725 | XCell CO/H ₂ S Two-tox Sensor |
| 10121213 | XCell CO/H ₂ S-LC Two-tox Sensor |
| 10121214 | XCell CO H ₂ -RES/H ₂ S Two-tox Sensor |
| 10121215 | XCell SO ₂ /H ₂ S-LC Two-tox Sensor |
| 10121217 | XCell NO ₂ /CO Two-tox Sensor |

Accessories

| | |
|----------|---|
| 10152669 | ALTAIR Pump Probe (U.S./CAN) |
| 10153039 | ALTAIR Pump Probe No Charger (U.S./CAN) |
| 10152668 | ALTAIR Pump Probe Euro Charger (ATEX/IEC) |
| 10153040 | ALTAIR Pump Probe No Charger (ATEX/IEC) |

Approvals (pending)

| | |
|--|--|
| United States ETL Class I, Div. 1, Groups A,B, C&D Tamb=-40°C to +54°C ETL Class II, Div.1, Groups E,F&G Class III, Div. 1 Tamb=-40°C to +54°C; T4 | ATEX II 1G Ex ia IIC T4, -40°C to +60°C, IP67 (Zone 0 with no combustible sensor installed) II 2G Ex ia d IIC T4, -40°C to +60°C, IP67 (Zone 1 with combustible sensor installed) |
| Canada CSA Class I, Div. 1, Groups A,B,C&D CAN/CSA C22.2 152; 12.13.01-2000 ETL Class II, Div.1, Groups E,F&G Class III, Div. 1 Tamb=-40°C to +54°C; T4 | IEC Ex ia IIC T4, -40°C to +60°C (Zone 0 with no combustible sensor installed) Ex ia d IIC T4, -40°C to +60°C (Zone 1 with combustible sensor installed) |
| Australia / New Zealand Ex ia s IIC T4, -40°C to +60°C, IP67 (Zone 0) | |

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