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ALTAIR® (5)X

IT'S WHAT'S INSIDE THAT COUNTS ALTAIR 5X Multigas Detector

With MSA XCell[®] Sensor Technology



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.

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 for 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 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.

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 CO_2 .

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 GX2 Automated Test System and MSA Link™ Pro and MSA Link Software.

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

- Safety director at energy company



SENSORS

MSA XCell O₂ Sensor

MSA XCell Ex Sensor, combustible



Adding microelectronics inside the sensors provides more control and higher performance than previous generations.



MSA XCell SO₂, Cl₂, or NH₃ Sensor

Additional exotic sensors: CIO₂, HCN, PH₃, NO₂

MSA XCell CO/H₂S Sensor



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 has revolutionized sensor technology with design breakthroughs that improve performance.

- New XCell exotic SO₂, 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 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 NH₃ and Cl₂ sensors
- Combustible sensor proprietary operating mode helps
 poison-resistance 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



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 upon the ALTAIR 5X Multigas Detector to withstand the wear and tear that other portable gas detectors can't.

* Three-year warranty is for most common sensor configurations.

Online Training and Product Simulation

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

"The three-year warranty is huge." ______ – Safety manager at energy company



| Technical Specifications | | | | |
|--|---------------------------|---------------------------|--|--|
| Gas type | Range | Resolution | | |
| Combustible | 0-100% LEL | 1% LEL | | |
| | 0-5% Vol, CH ₄ | 0.05% Vol CH ₄ | | |
| 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 | 0.05 ppm | | |
| Ammonia | 0-100 ppm | 1 ppm | | |
| Nitrogen dioxide | 0-20 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, CO ₂ | 0-10%Vol | 0.01%Vol | | |
| Butane, C_4H_{10} | 0-25%Vol | 0.1%Vol | | |
| Methane, CH ₄ | 0-100%Vol | 1%Vol | | |
| Propane, C ₃ H ₈ | 0-100%Vol | 1%Vol | | |

10 feet

Rugged rubberized

Drop test Housing Weight Dimensions (L x W x D)

Audible alarm Visual alarm Vibrating alarm MotionAlert & InstantAlert features display

> Backlight Battery

Run time Charging time Operating temperature Short-period operation Humidity Ingress protection Data log Event log Standard warranty

armor 1 lb (without IR sensor) 6.69" H x 3.49" W x 1.79" D without belt clip or IR sensor >95 dB typical 2 ultra-bright LEDs, on top Standard Standard High-contrast monochrome or color display Adjustable time-out RechargeableLi-ION or AA alkaline 20 hrs @ room temperature \leq 6 hours -20° C to $+50^{\circ}$ C -40° C to $+ 50^{\circ}$ C 15-90% RH non-condensing IP65 Adjustable, 200 hrs minimum Standard 1000 events 3 years on CO, H₂S, LEL, O₂, SO₂, and IR sensors 2 years on NH₃, Cl₂ sensors 1 year on other sensors

| ALTAIR 5X Detector with 3-year warranty, monochrome display, data logging, charger, integral pump, and tubing | | | | |
|---|------------------------------|---|--|--|
| | Approvals | | | |
| U.S. | Canada | Configuration | | |
| ALTAIR 5X Detector Economy Kits - monochrome display | | | | |
| 10116924 | 10115118 | LEL, O ₂ , CO, H ₂ S | | |
| 10116925 | 10115119 | LEL, O ₂ , CO, H ₂ S, SO ₂ | | |
| ALTAIR 5X Detect and 1-ft probe | tor Industrial Kits - monoch | rome display, 10-ft sampling line, | | |
| 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, 10-ft sampling line, and 1-ft probe | | | | |
| 10116928 | 10115142 | LEL, O ₂ , CO, H ₂ S | | |
| 10116929 | 10115143 | LEL, O ₂ , CO, H ₂ S, SO ₂ | | |

| ALTAIR 5X | GALAXY GX2 Automated Test S | ystem | | | |
|--|--|--|------------------------------|--|--|
| N. America | Configuration | | | | |
| 10128626 | 1 cylinder, charging | | | | |
| 10128625 | Up to 4 cylinders, charging | | | | |
| 10128628 | 1 cylinder, non-charging | | | | |
| 10128627 | Up to 4 cylinders, non-charging | | | | |
| Calibration | n Gas | | | | |
| 10048280 | Calibration gas cylinder (34L) 1.45% CH $_4$, 15% O $_2$, 60 ppm CO, 20 ppm H $_2$ S | | | | |
| 10045035 | Calibration gas cylinder (54L) 1.45% CH ₄ , 15% O ₂ , 60 ppm CO, 20 ppm H ₂ S | | | | |
| 10098855 | Calibration gas cylinder (34L), 1.45% CH_4, 15% O_2, 60 ppm CO, 20 ppm H_2S, 10 ppm SO_2 | | | | |
| 10117738 | Calibration gas cylinder (58L), 1.45% CH $_4$, 15% O $_2$, 60 ppm CO, 20 ppm H $_2$ S, 10 ppm SO $_2$ | | | | |
| Replaceme | ent Sensors | | | | |
| 10080222 | CIO ₂ sensor | 10106726 | XCell NH₃ sensor | | |
| 10080224 | NO ₂ sensor | 10106727 | XCell SO ₂ sensor | | |
| 10106375 | HCN sensor | 10106728 | XCell Cl ₂ sensor | | |
| 10106722 | XCell Ex Sensor, combustible | 10106729 | XCell O ₂ sensor | | |
| 10106725 | XCell CO/H ₂ S Sensor | 10116638 | PH₃ sensor | | |
| Accessories | 5 | | | | |
| 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 | | USA / Canada Class I, Division 1, Groups A, B, C & D CAN/CSA C22.2 No. 152 Combustible | | | |
| 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 | | 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 or ALTAIR 5X iR Multigas Detector with rechargeable battery pack T4

Temperature: -40°C to +50°C ALTAIR 5X Multigas Detector with alkaline battery pack T3/T4 ALTAIR 5X or ALTAIR 5X iR Multigas Detector with rechargeable battery pack T4

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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