ALTAIR® Pro Single-Gas Detector

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H2S
PRO

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The Safety Company

The ALTAIR Pro Single-Gas Detector has a wide range of features, including simple intuitive operation, small rugged design, and dependable technology.

These innovative toxic gas and oxygen detectors are based upon the design of the popular ALTAIR Single-Gas Detector, but with added features and functionality.

- Tough rubberized housing
- One-button operation
- Accurately measures gas concentration or percent oxygen
- Displays information on a large, clear, backlit LCD.
- Superior dust and water protection (rated IP67 except O2-R)
- Event-logging and data-logging
- Excellent impact resistance

The ALTAIR Pro Single-Gas Detector provides worry-free performance and stands up to the roughest handling in even the toughest industrial environments. Sensors and battery are easily replaced to keep the unit performing for years.

- Versions available for CO, H2S, O2, NH3, Cl2, ClO2, NO2, SO2, HCN, and PH3
- Great RFI performance
- Adjustable alarm set points are offered for LOW, HIGH, TWA, and STEL
- Alarms are indicated by flashing LEDs, audible alarm, and internal vibrating alarm
- Replaceable battery and sensor

The ALTAIR Pro Single-Gas Detector is designed and built with MSA's superior quality and is part of MSA's ALTAIR Detector family of products.

The ALTAIR Pro Single-Gas Detector's unique design combined with its highly competitive price makes it the clear choice when selecting a single-gas detection instrument. It is accurate, reliable, durable, easy to use, easy to maintain, and packed with features. The ALTAIR Pro Single-Gas Detector is designed and manufactured by MSA, the most trusted name in the safety products industry.

Ease-of-Use

The ALTAIR Pro Single-Gas Detector combines user flexibility and functional simplicity. True single-button operation provides users with a clear path to any function. With a single button, users can:

- turn the unit on.
- activate the backlight.
- activate the infrared link for communication with a computer.
- display information about the unit, such as software version and alarm settings.
- perform a fresh air setup (FAS).
- initiate a bump test.
- change calibration gas concentration.
- initiate calibration.
- reset peak reading display.
- manually change **LOW**, **HIGH**, **TWA**, **STEL** alarm set points (in protected **SETUP** (mode only).
- turn the unit off.

Another ease-of-use feature is the built-in gas delivery adapter; no accessories are needed to conduct gas response tests, eliminating hidden replacement costs.

Distinctive Alarm System

Triple alarm system leaves no doubt for users in alarm situations. Piercing audio alarm averages 95 dB @ 1 foot and is designed to be distinctive from other workplace sounds. Extended frequency range covers a wide sound spectrum. Visual alarm features dual LED displays located on the unit's top, visible from all angles. Internal vibrating alarm is also standard on all units, emitting a pulse that directly calls additional attention to users when in alarm mode.

Easily Replaceable, Commercially Available Battery

The detector runs on a single CR2 camera battery, simple to install and commercially available. Installed battery life is approximately 9,000 hrs (> 1 year). A long wake-up period each time units are activated is avoided by supplying small amounts of power to sensors even when units are powered off.

Remote Oxygen Detector (O2-R)

The remote oxygen version for The ALTAIR Pro Single-Gas Detector's remote oxygen sensor attaches remotely to the end of a ten-foot cable, rather than inside instrument housing. Design allows users to lower the sensor into remote locations and monitor O2 levels from ten feet away.

Sensors

The ALTAIR Pro Single-Gas Detector uses fast-responding 20 Series oxygen and toxic sensors and meets UL, cUL, ATEX, and Australian standards. Sensors simply plug in to the internal circuit board for fast, easy replacement.

Built-In IR Communication (Event & data logging)

Data logging is standard on the Altair Pro Single-Gas Detector. The unit automatically records the 50 latest events in the session log, while simultaneously recording peak gas readings or low O2 readings every three minutes in a periodic data log. Combined, these two tools provide a great way to assess alarm conditions, confirm bump tests or calibration, and verify employee gas concentration exposures.

To access data, simply link the unit to your MSA infrared adapter using standard built-in IR communication. MSA FiveStar® Link™ Software allows you to view various logs, adjust alarm set points, assign the unit a specific name, and disable or activate particular features and options, a one-stop unit control center.

Rugged Design

Thick rubberized housing withstands accidental drops or other impacts and also provides additional water ingress resistance. Metal screw inserts offer stability over the unit's lifetime. A durable suspension clip completes this tough outer shell.

Water and Dust Resistance

The ALTAIR Pro Single-Gas Detector is highly water-and dust-resistant. Simple yet effective design innovatively seals the unit, exceeding the industry average IP rating.

Test and Calibration Stations

MSA is proud to offer the ALTAIR QuickCheck® Station, an easy and cost-effective way to perform daily alarm and gas response tests on your ALTAIR Pro Single-Gas Detectors. The station is available in manual and automatic versions and quickly verifies that the instrument is ready for the upcoming day's use.

MSA also offers the ALTAIR Galaxy® Automated Test System for complete automatic calibration and record-keeping of your ALTAIR Pro Single-Gas Detectors. Please contact MSA for additional information on either of these stations.

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ALTAIR® Pro Single-Gas Detector Specifications

Weight :	4.0 oz including clip
Dimensions	3.4" x 2.0" x 1.0"
Operating T Range	-20 to +50ºC (-4 to +122ºF)
Humidity	10-95% RH non-condensing

Gases & Measuring Ranges:

Gas	Range	Resolution
Oxygen	**0-25% by vol**	**0.1 Vol.%**
Carbon monoxide	**0-1500 ppm**	**1 ppm**
Hydrogen sulfide	**0-200 ppm**	**1 ppm**
Hydrogen cyanide	**0-30 ppm**	**0.5 ppm**
Chlorine	**0-20 ppm**	**0.1 ppm**
Chlorine dioxide	**0-1.00 ppm**	**0.02 ppm**
Sulfur dioxide	**0-20 ppm**	**0.1 ppm**
Nitrogen dioxide	**0-20 ppm**	**0.1 ppm**
Ammonia	**0-100 ppm**	**1 ppm**
Phosphine	**0-5.00 ppm**	**0.05 ppm**
Remote oxygen (O2-R)	**0-25% by vol**	**0.1Vol.%**
Alarms	Average > 95 dB @ 1 ft, bright LEDs, vibrating alarm standard	

Warranty	See instruction manual for full warranty information
Instrument life	Indefinite with sensor and battery replacement as needed
Battery	CR2 lithium camera battery (9000 hour installed life - typical)
Case	Polycarbonate with rubberized shell
Display	Large LCD with backlight
Humidity	10-95% RH non-condensing
Ingress Protection	IP67 (except O2-R is IP54)
Data Logging	50 latest events in session log; Peak value every 3 minutes in periodic log

Certifications:

US and Canada	Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Group G
Europe	Ex ia IIC T4
USA	AEx ia IIC T4
European Union	ATEX II 2G Ex ia IIC T4
Australia	Ex ia IIC T4 (Ta = 50˚C)

See website for additional approvals:
http://www.msanorthamerica.com/approvals_and_standards.html#AltairPro

Instrument Type	P/N	Low Alarm	High Alarm	STEL	TWA
Oxygen (O2)	10074137	19.50%	23.00%	N/A	N/A
Carbon monoxide (CO)	10074135	25 ppm	100 ppm	100 ppm	25 ppm
Carbon monoxide (CO) fire	10076723	25 ppm	100 ppm	100 ppm	25 ppm
Carbon monoxide (CO) steel	10076724	75 ppm	200 ppm	200 ppm	75 ppm
Hydrogen sulfide (H2S)	10074136	10 ppm	15 ppm	15 ppm	10 ppm
Hydrogen cyanide (HCN)	10076729	4.7 ppm	10 ppm	10 ppm	4.7 ppm
Chlorine (CL2)	10076716	0.5 ppm	1.0 ppm	1.0 ppm	0.5 ppm
Chlorine dioxide (CLO2)	10076717	0.1 ppm	0.3 ppm	0.3 ppm	0.1 ppm
Sulfur dioxide (SO2)	10076736	2.0 ppm	5.0 ppm	5.0 ppm	2.0 ppm
Nitrogen dioxide (NO2)	10076731	2.0 ppm	5.0 ppm	5.0 ppm	2.0 ppm
Ammonia (NH3)	10076730	25 ppm	50 ppm	35 ppm	25 ppm
Phosphine (PH3)	10076735	0.3 ppm	1.0 ppm	1.0 ppm	0.3 ppm
Oxygen remote (O2-R)	10076733	19.50%	23.00%	N/A	N/A
Alternate Set Point Models	**P/N**	**Low Alarm**	**High Alarm**	**STEL**	**TWA**
Oxygen (O2)	10076732	19.50%	18.00%	N/A	N/A
Carbon monoxide (CO)	10076718	30 ppm	60 ppm	60 ppm	30 ppm
Carbon monoxide (CO)	10076719	35 ppm	100 ppm	100 ppm	35 ppm
Carbon monoxide (CO)	10076720	35 ppm	400 ppm	400 ppm	35 ppm
Carbon monoxide (CO)	10076721	50 ppm	200 ppm	200 ppm	50 ppm
Carbon monoxide (CO)	10076722	100 ppm	300 ppm	300 ppm	100 ppm
Carbon monoxide (CO) steel	10080532	199 ppm	200 ppm	200 ppm	35 ppm
Hydrogen sulfide (H2S)	10076728	10 ppm	20 ppm	10 ppm	10 ppm
Hydrogen sulfide (H2S)	10076725	5 ppm	10 ppm	10 ppm	5 ppm
Hydrogen sulfide (H2S)	10076727	8 ppm	12 ppm	12 ppm	8 ppm
Hydrogen sulfide (H2S)	10076726	7 ppm	14 ppm	14 ppm	7 ppm

Accessories and Parts

Part Number	Description
467895	Regulator, 0.25 lpm
10030325	Tubing, 16" (do not use with NH3, Cl2, and CLO2)
10080534	Tubing, 16" Tygon-lined (NH3, Cl2, and CLO2)
10074132	3V CR2 battery
10069894	Clip, stainless steel

Part Number	Description
10041105	Cellphone Clip
10041107	Lanyard clip
10073346	Hardhat clip
10040002	Clip, suspender (standard)
10088099	MSA Link Software CD-ROM
10082834	IR Adapter for USB

Note: The ALTAIR QuickCheck Station and ALTAIR Galaxy Automated Test System are available for bump testing and calibration of most versions of the ALTAIR and ALTAIR Pro Single-Gas Detector family.

Authorized Distributor:
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