

New



ALTAIR 4

[More than a Multi-Gas Detector]

MSA
The Safety Company

ALTAIR 4

[Extremely Robust, Multifunctional Alarms]

The ALTAIR 4 is a reliable multi-gas detector that measures O₂, H₂S, CO and combustible gas. Besides being one of the most compact multi-gas detectors available, it has an extremely durable rubberized housing and is very easy to use.

The ALTAIR 4 is available with the option of MotionAlert – a unique feature in the world of portable gas detection. The detector’s alarm is triggered if the user remains motionless, alerting those nearby. The InstantAlert alarm allows the user to manually activate the detector’s alarm system. It is a standard feature across the ALTAIR 4 range.



ALTAIR 4

The versatile ALTAIR 4 is suitable for many applications in and beyond the following industries:

- Oil & Gas
- Chemicals
- Steel & Iron
- Utilities
- Fire Service
- Waste Water
- Civil Engineering
- Contractors
- Various Industrial Applications

[MotionAlert]

ALTAIR 4 has an optional MotionAlert feature in case the user is overcome and requires assistance.

When enabled, MotionAlert will activate a pre-alarm if ALTAIR 4 does not detect motion for 30 sec. If there is no motion detected after a further 10 seconds the detector goes into MotionAlert alarm.

This could prove to be invaluable in potentially life threatening situations.

[InstantAlert]

This unique feature gives users the ability to manually activate an alarm to attract the attention of anyone nearby. In situations where voice communication is difficult [e.g. when wearing masks] this standard feature further increases piece of mind for the user.

[Robust Design]

ALTAIR 4 is IP67 rated and is designed to withstand a 3 m drop test.

The extra thick rubberised housing provides protection from accidental drops. Its tight seal ensures simple yet effective resistance to water and dust ingress. ALTAIR 4 will perform reliably even in the harshest industrial environments.

[Easy to Read Display]

The ALTAIR 4 display is straightforward and extremely easy to read. The large numeric display allows users to view gas concentration, alarm conditions, battery status, set points and peak reading with accuracy and confidence.

[Easy to Use]

With its three large heavy duty buttons information is always easy to find. The buttons are designed so they can be pressed even when the user is wearing gloves.

[Long-Life Battery]

The rechargeable lithium polymer battery provides up to 16 hours of continuous operation and outperforms other battery technologies in extreme environmental conditions.

[Bump Check Indicator]

The ALTAIR 4 allows for a simple bump check, which will be recorded and displayed on the screen as a checkmark for 24 hours. Either insert the ALTAIR 4 into the QuickCheck or attach the calibration cap to carry out a bump check.

[Triple Alarm System]

The triple alarm system fitted to the ALTAIR 4 effectively cautions the user to any danger. Super-bright LEDs on the detector's top and bottom ensure alarms are visible from all angles. The ALTAIR 4 also has a confidence safe LED that flashes every 15 seconds to indicate the detector is working properly. The audible alarm is typically measured at 95 dB at 30 cm and a strong vibrating alarm is also a standard feature.

[MSA Link ready]



The new multi-lingual MSA Link Software helps the user get the most from their ALTAIR 4. With this class-leading software the user can quickly download and analyse the detector datalog. Users can also modify most functions including alarm and expected calibration values, industrial hygiene [STEL, TWA] function and many other operating and set-up parameters. All critical values are protected behind a user selectable password option.

[Full Datalogging as Standard]

A highly comprehensive datalogging facility is standard on ALTAIR 4. This allows the user to keep a record of day-to-day gas values detected at a configurable time interval along with any other events seen.

[Simple Testing]

The detector's visual, audible and vibrating alarms along with response to a known gas concentration can be checked by a QuickCheck.

To test the ALTAIR 4, simply press the button and place it into the test station. The test results are displayed on the three LEDs.

[GALAXY]

The GALAXY automated calibration and test system is a completely stand alone system that does not require a computer or network interface.

Up to 10 GALAXY modules can be connected together allowing ALTAIR 4 to be simultaneously tested and calibrated. Over 1000 individual test records can be stored on an industry standard flash card. An optional wired connection is also available.



Technical Specifications

Gas	Range	Resolution
LEL	0–100%	1%
O ₂	0–25 vol.%	0.1 vol.%
CO*	0–999 ppm	1 ppm
H ₂ S*	0–200 ppm	1 ppm
Weight	210 g	
Dimensions	112 x 76 x 35 mm [H x W x D]	
MotionAlert	Optional	
Audible Alarm	> 95 dB at 30 cm	
Visual Alarm	4 ultra-bright LEDs on top & bottom	
Vibrating Alarm	Standard	
Housing	Rugged rubberized armor	
Display	37 x 37 mm	
Backlight	Adjustable time out	
Battery	Rechargeable Li-polymer	
Battery Run Time	16 hrs @ room temperature	

*CO & H₂S channels are also available in mg/m³ units

Charging Time	< 4 hrs
Operating Temperature Range	–20 °C to +50 °C
Humidity	15–90% RH non-condensing
Ingress Protection	IP67
Drop Test	3 metres
Data Log	Standard, 50 hrs minimum
Event Log	Standard, 500 events
Warranty	2 years including battery
Certifications Europe:	Ⓜ ATEX II 2 G EEx ia d IIC T4, T _{amb} = –20 °C to +50 °C
USA & Canada:	UL, Class I, Div. 1, Groups A B, C, D, Class II, Div. 1, Groups F & G. T4, T _{amb} = –20 °C to +50 °C CSA, Class I, Div. 1, Groups A B, C, D
Australia & New Zealand:	IEC Ex ia d I/IIC T4, ANZEx ia s I/IIC T4 [Zone 0]

Ordering Information

ALTAIR 4 can be configured for your individual requirements. Please contact your MSA representative for ordering details. The most popular configurations are listed below.

10092018	ALTAIR 4 Met [LEL 5.0% Vol]-O ₂ -CO-H ₂ S with MotionAlert
10092020	ALTAIR 4 Met [LEL 5.0% Vol]-O ₂ -CO-H ₂ S
10092071	ALTAIR 4 Met [LEL 4.4% Vol]-O ₂ -CO-H ₂ S with MotionAlert
10092019	ALTAIR 4 Met [LEL 4.4% Vol]-O ₂ -CO-H ₂ S
10092072	ALTAIR 4 Met [LEL 4.4% Vol]-O ₂ -CO-H ₂ S [mg/m ³] with MotionAlert
10092073	ALTAIR 4 Met [LEL 4.4% Vol]-O ₂ -CO-H ₂ S [mg/m ³]

ALTAIR 4 comes complete with Charger, Calibration Cap and Tubing.

10089100	ALTAIR 4 Pen-O ₂ -CO-H ₂ S with MotionAlert
10089097	ALTAIR 4 Pen-O ₂ -CO-H ₂ S
10089101	ALTAIR 4 Pen-O ₂ -CO with MotionAlert
10089098	ALTAIR 4 Pen-O ₂ -CO
10091474	ALTAIR 4 Pen-O ₂ -H ₂ S with MotionAlert
10091473	ALTAIR 4 Pen-O ₂ -H ₂ S

Accessories

10053022	Gas Can [58 l] 1.45% CH ₄ , 60 ppm CO, 20 ppm H ₂ S, 15% O ₂
478359	Pressure Reduction Valve 0.25 l/min
10047596	Universal Pump Probe [ATEX]
10088099	MSA Link Software CD-ROM
10082834	JetEye IR Adapter with USB Connector

GALAXY, QuickCheck and additional accessories are available on request.

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