

ALTAIR® io360 Gas Detector



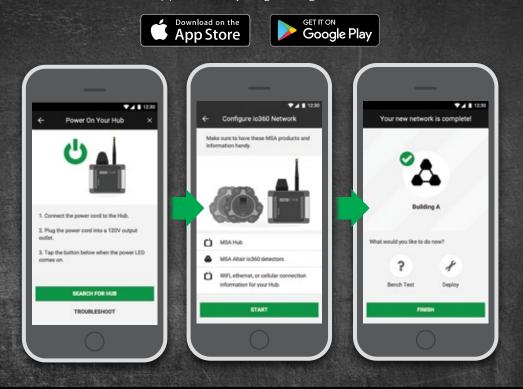
THE FUTURE OF AREA MONITORING.

WE KNOW WHAT'S AT STAKE.

The Simple Usability of a Smart Home Product. The Rugged, Reliable Performance You Expect from MSA.

You shouldn't need IT skills and special equipment to set up your area monitoring network it should just work. ALTAIR io360 Gas Detectors are preconfigured and ready-to-go out of the box, requiring less time for training and setup.

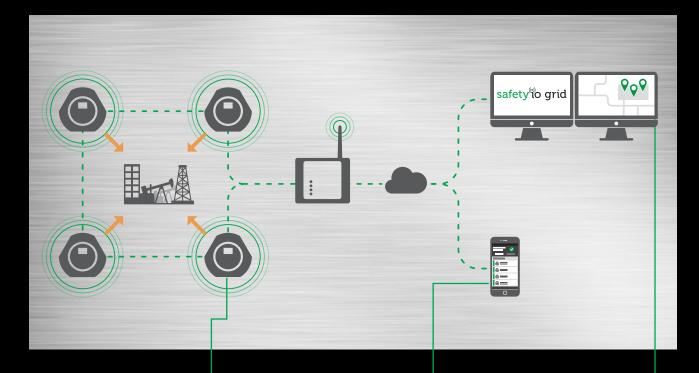
Guided setup, installation tips, and real-time feedback replace complex instructions, scrolling through screens, and overwhelming menu selections. All you need are a few quick swipes on the Safety io Grid mobile app to know you got it right the first time.







Flexible Monitoring and Effortless Connectivity Make Your Workers and Job Sites Safer





Gas detection and local alarms for high-risk areas. Just turn on your ALTAIR io360 Gas Detectors and deploy where needed.



The MSA HUB allows up to 16 ALTAIR io360 Gas Detectors to form a network you manage locally via the Safety io Grid mobile app.



Connecting your gas detection network to Safety io Grid gives you the power to remotely manage and monitor your fleet of detectors, capture data, and take action to create safer sites.

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Monitor Along a Fenceline, Confined Space or Any High-Risk Area Where a Gas Hazard Might Occur.















Downstream

Midstream

Upstream

Chemical Plants

Emergency Response

Underground & Vessels

Construction



GENERAL AREA MONITORING

Place throughout your site during a high-risk operation or whenever you need additional detection.



PERIMETER MONITORING

Cover an entire fence line or create smaller detection perimeters around a targeted work area.

CONFINED SPACE MONITORING

Place detectors in a confined space for continuous monitoring, even in a zone 0 location.



The ALTAIR io360 Gas Detector Offers a Combination of Runtime and Sensor Performance, Unmatched in the Industry. No Compromises.

Most area monitors have runtimes measured in hours or days. The ALTAIR io360 Gas Detector gives you *months* in a hand held, compact design. You spend less time maintaining, more time monitoring.

Catalytic Bead Combustible, O₂, & CO/H₂S

50-60 DAYS

4 GAS

When batteries near end-of-life, respond proactively and minimize unplanned downtime... the ALTAIR io360 Gas Detector notifies you locally and remotely.

Better Sensors Mean Better Performance.

WITH MSA XCELL® SENSOR TECHNOLOGY, YOU GET:

The fastest response time. Better stability and accuracy. 4 years of expected life for combustible and toxic sensors. End-of-life warning to minimize downtime.



80-85 DAYS

1-3 GAS

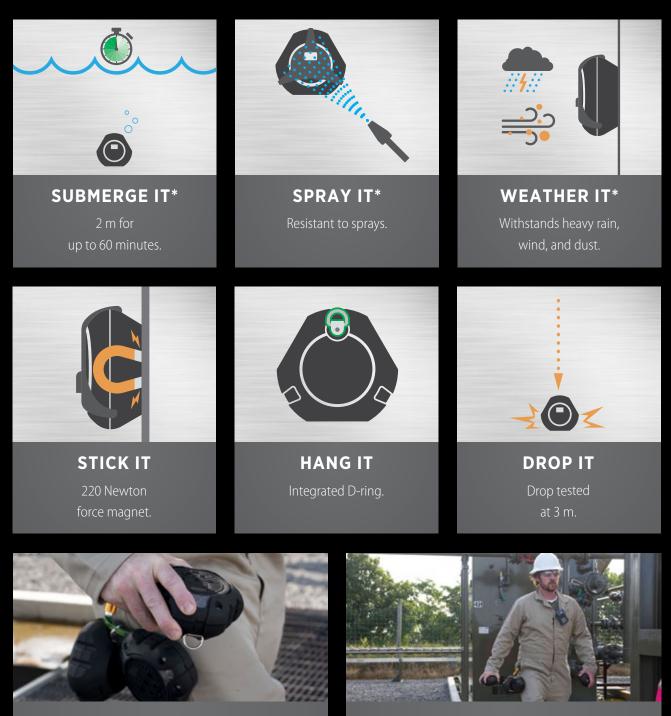
0, & CO/H,S

ALTAIR io360 Gas Detector use XCell® Combustible and Toxic sensors

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The Rugged, Compact Design You Expect From MSA. With an IP68 Rating.

You work in tough environments. Your gas detectors need to work in them too.



PORTABLE Carry multiple detectors at a time. Make fewer tr when deploying. Save time and hassle.

COMPACT 0.73 kg No external antennas or battery packs.



Specifications

ALTAIR io360 Gas Detector Specification

WARRANTY4 years Oxygen Sensor: 2 years Low-energy Combustible: 1 yearDURABILITYDrop Test: 3 m Ingress Protection: IP68TEMPERATURENormal Operating: -20° to 55° C Extending Operating: -40° to 55° C Storage: 0 to 35 °CHUMIDITYIntermittent: 5%-95% Non-condensing: 15%-90%POWERBatteries: 3 replaceable lithium thionyl chloride batteries Runtime: nominally 50-60 days 4-gas, 80-85 days without combustible sensorPHYSICALWeight: 0.7 kg Dimensions: 132 x 142 x 69 mmALARMSAudible: 90 dB @ 0.3 m Visual: RGB LEDDATA LOGGINGPeriodic, Event, Instrument, Calibration logs stored on detector (at least 2 months) and sent to Safety io Grid.RANGEUp to 300 m line of site HUB to detector 2 mesh hops to extend range.RADIO868 MHz (region dependent), Bluetooth, RFIDSENSORSGasRange Range Resolution LEL0.10%1% 0.20.20-30%0.1% 1% 1% 0.20.30.1% 1% 1%0.40.20-200 ppm11					
Low-energy Combustible: 1 yearDURABILITYDrop Test: 3 m Ingress Protection: IP68TEMPERATURENormal Operating: -20° to 55° C Extending Operating: -40° to 55° C Storage: 0 to 35 °CHUMIDITYIntermittent: 5%-95% Non-condensing: 15%-90%POWERBatteries: 3 replaceable lithium thionyl chloride batteries Runtime: nominally 50-60 days 4-gas, 80-85 days without combustible sensorPHYSICALWeight: 0.7 kg Dimensions: 132 x 142 x 69 mmALARMSAudible: 90 dB @ 0.3 m Visual: RGB LEDDATA LOGGINGPeriodic, Event, Instrument, Calibration logs stored on detector (at least 2 months) and sent to Safety io Grid.RANGEUp to 300 m line of site HUB to detector 2 mesh hops to extend range.RADIO868 MHz (region dependent), Bluetooth, RFIDSENSORSGasRange Resolution 1% 02Q0-30%0.1% 01% 02Q0-30%0.1% 10%	WARRANTY	,			
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SENSORS Gas Range Resolution LEL 0-100% 1% O2 0-30% 0.1% CO 0-1999 ppm 1 ppm		2 mesh hop	os to extend range.		
LEL 0-100% 1% O ₂ 0-30% 0.1% CO 0-1999 ppm 1 ppm	RADIO	868 MHz (region dependent), Bluetooth, RFID			
O ₂ 0-30% 0.1% CO 0-1999 ppm 1 ppm	SENSORS	Gas	Range	Resolution	
CO 0-1999 ppm 1 ppm					
		-			
H ₂ S 0-200 ppm 1 ppm					
		H ₂ S	0-200 ppm	1 ppm	

MSA HUB Specifications

WARRANTY	4 years
DURABILITY	Ingress protection IP67
TEMPERATURE RANGE	-20° to +60° C for hazardous locations
HUMIDITY	10 to 90% relative humidity, non-condensing
POWER	Nominal: 24 V DC line power Range: 6 V to 32 V
PHYSICAL	Weight: 1.4 kg Dimensions: 190mm x 195mm x 99mm
RADIO	868 MHz, Bluetooth, 2.4 GHz Wi-Fi (a,b,g,n)
ETHERNET	10/100 mbit

Certifications

ALTAIR io360 Gas Detector Certifications**

UL (U.S.)
Class I, Division 1, Groups A, B, C, and D
ATEX
ll 1G Ex da ia IIC T4 Ga
IEC
Ex da ia IIC T4
General
T4, -40°C ≤ Ta ≤ +60°C

MSA HUB Certifications***

	QPS/CSA
DIVISION	Class I, Division 2, Groups A, B, C, and D
ZONE	Ex ec IIC T4 Gc (Zone 2)
	ATEX
ZONE	ll 3G ec [ic] IIC T4 Gc
	IEC
ZONE	Ex ec [ic] IIC T4
	General
MPERATURE RATING	$-20^{\circ}C \le Ta \le +60^{\circ}C$

** CSA & Inmetro Pending *** Inmetro Pending Additional certification information available at msasafety.com.

ENHANCE YOUR ALTAIR io360 GAS DETECTOR EXPERIENCE

safety to grid

FLEET MANAGER

all from your browser.

MANAGER Assess, address, & share Kr your MSA fleet status— –

Know what's going on —and take action when seconds count.

LIVE MONITOR

For more information, please visit *safetyio.com*.

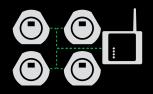
MSA**safety**.com



This is the Future of Area Monitoring.

This is the ALTAIR io360 Gas Detector.

Both the detectors and the networks can be quickly and easily reconfigured for your changing needs.



PRE-CONFIGURED KITS 4, 8, OR 16 ALTAIR io360 GAS DETECTORS + 1 MSA HUB

For users who want one configuration of gas detector. HUB and detectors are paired as a network, for ready, out-of-the-box experience. Detectors can be added, dropped, and/or reconfigured using the Safety io Grid mobile app.



CUSTOM OPTIONS ANY NUMBER OF ALTAIR io360 GAS DETECTORS & MSA HUBS

For users whose needs may change from job to job or who plan to have larger fleets. Order multiple detectors and HUBs, and easily construct networks with the Safety io Grid mobile app.

Note: This Bulletin contains only a general description of the products shown. While product

uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used

until the product instructions/user manual, which contains detailed information concerning the

ALTAIR io360 Gas Detector Basic Configurations*

ATEX	Quantity		Color	
Configurations			Black	Green
LEL, O ₂ , CO/H ₂ S	Preconfigured Kits with MSA HUB	4 pack	10207453	10207457
		8 pack	10207454	10207436
		16 pack	10207465	10207441
	Single Detector	1 pack	10207468	10207440
H₂S	Preconfigured Kits with MSA HUB	4 pack	10207422	10207404
		8 pack	10207433	10207175
		16 pack	10207418	10207180
	Single Detector	1 pack	10207417	10207425

Accessories*

10200410	MSA HUB, ALTAIR io360, 868 MHz
10195741-SP	MSA HUB ethernet cable
10205504	Sunshield, io360

Calibration*

10207603	58 L, Methane 2.5%, O ₂ -15%, CO-60 ppm, H ₂ S-20 ppm
10155918	58 L, H ₂ S-20 ppm
467895	Fixed flow regulator

Replaceables & Spares*

10201430	Replacement kit, battery, 3 pack, io360
10201438	Sensorshield, replacement, io360
10201439	Cap, calibration, replacement, io360
10203709	Replacement kit, combustible sensor, io360
10203721	Replacement kit, comb-evo sensor, io360
10203724	Replacement kit, O ₂ sensor, io360
10203710	Replacement kit, CO/H ₂ S sensor, io360
10201433	Replacement kit, horn, io360
10201434	Replacement housing front, black, io360
10201435	Replacement housing back, black, io360
10205505	Replacement housing front, green, io360
10205506	Replacement housing back, green, io360
10201437	Replacement kit, screws, io360
10205507	ALTAIR io360, sensor plug kit
10203573-SP	MSA HUB AC cord, EU (type F)
10208253-SP	MSA HUB AC cord, UK (type G)
10208432-SP	MSA HUB AC cord, SA (type D)
10208433-SP	MSA HUB AC cord, DK (type K)

*Need something different? Visit www.msasafety.com or Contact MSA for more options.

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit **MSAsafety.com/offices**.

