



ALTAIR[®] io360

Gas Detector



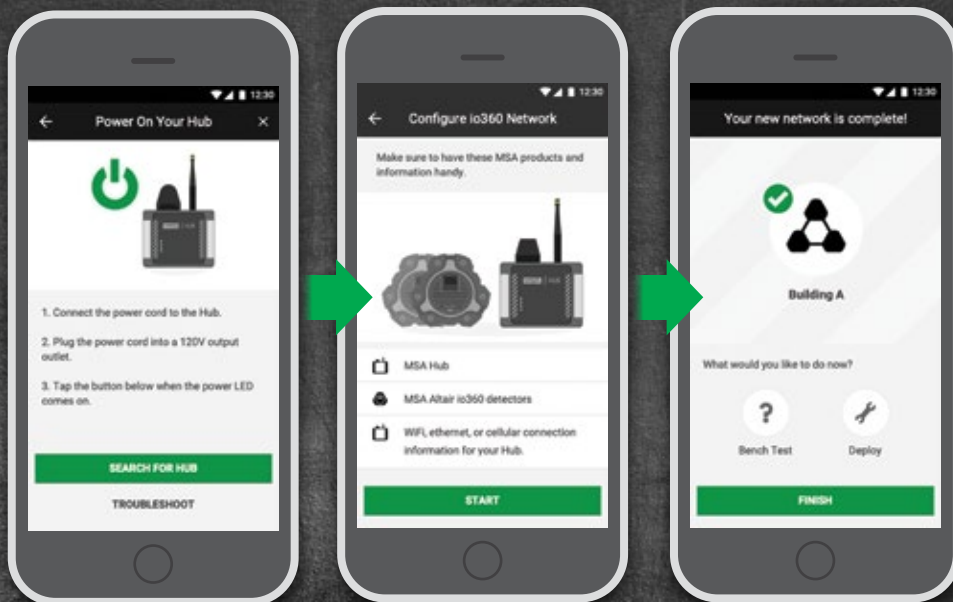
THE FUTURE OF AREA MONITORING.

WE KNOW WHAT'S AT STAKE.

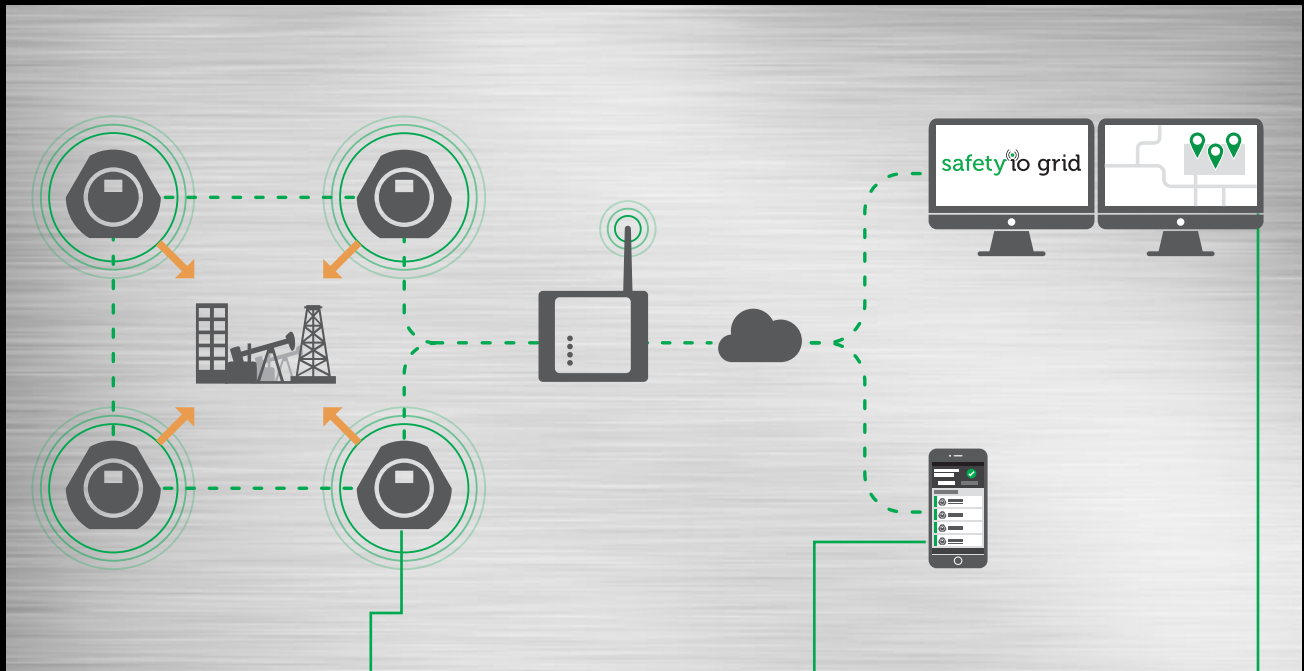
The Simple Usability of a Smart Home Product. The Rugged, Reliable Performance You Expect from MSA.

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.

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



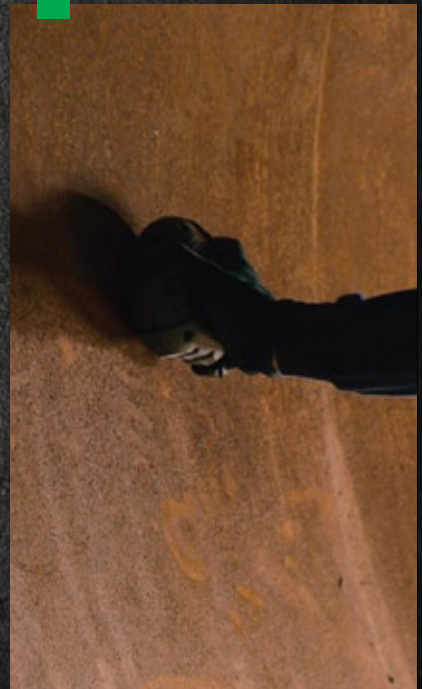
GENERAL AREA MONITORING

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.

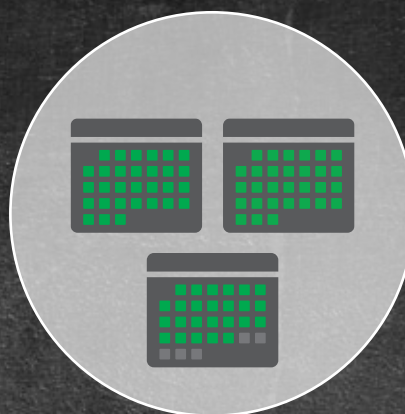
Most area monitors have runtimes measured in hours or days.

The ALTAIR io360 Gas Detector gives you *months*—
in a hand held, compact design. You spend less time maintaining, more time monitoring.



50-60 DAYS
4 GAS

Catalytic Bead Combustible, O₂, & CO/H₂S



80-85 DAYS
1-3 GAS

O₂ & CO/H₂S

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.

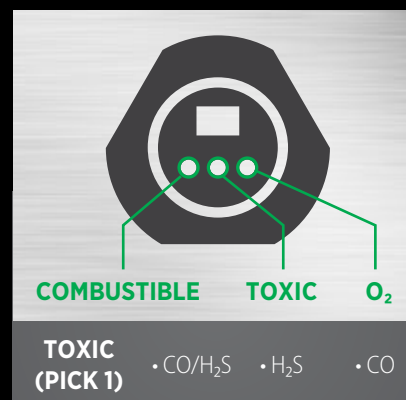
WITH MSA XCELL® SENSOR TECHNOLOGY, YOU GET:

The fastest response time.

Better stability and accuracy.

4 years of expected life for combustible and toxic sensors.

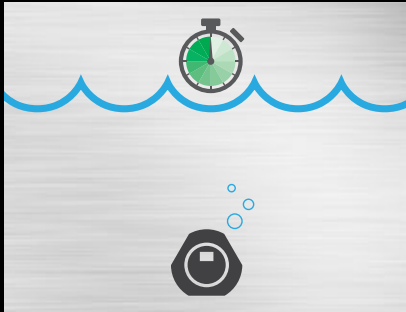
End-of-life warning to minimize downtime.



ALTAIR io360 Gas Detector use XCell® Combustible and Toxic sensors

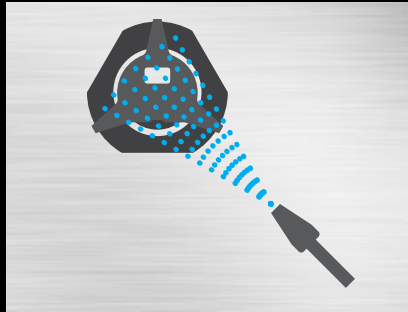
The Rugged, Compact Design You Expect From MSA. With an IP68 Rating.

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



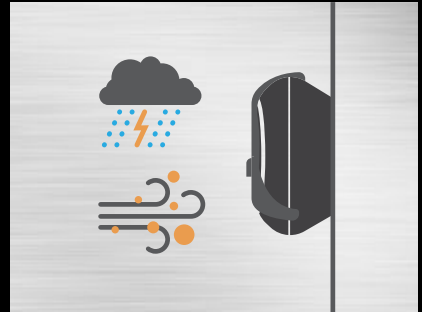
SUBMERGE IT*

2 m for
up to 60 minutes.



SPRAY IT*

Resistant to sprays.



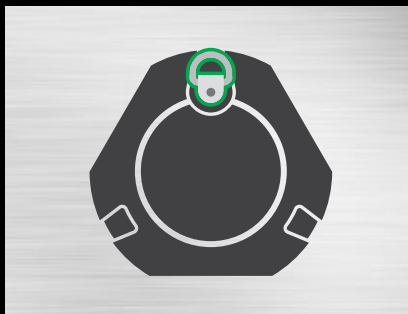
WEATHER IT*

Withstands heavy rain,
wind, and dust.



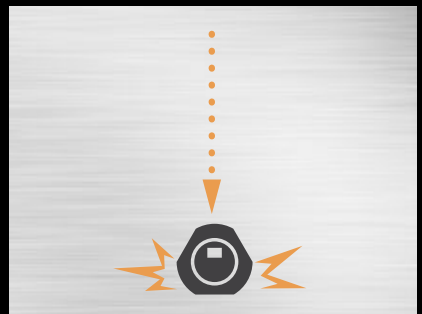
STICK IT

220 Newton
force magnet.



HANG IT

Integrated D-ring.



DROP IT

Drop tested
at 3 m.



COMPACT

0.73 kg
No external antennas or battery packs.



PORTABLE

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

*consistent/pass with testing requirements of IP68.

Specifications

ALTAIR io360 Gas Detector Specification

WARRANTY	4 years Oxygen Sensor: 2 years Low-energy Combustible: 1 year															
DURABILITY	Drop Test: 3 m Ingress Protection: IP68															
TEMPERATURE	Normal Operating: -20° to 55° C Extending Operating: -40° to 50° C Storage: 0 to 35 °C															
HUMIDITY	Intermittent: 5%–95% Non-condensing: 15%–90%															
POWER	Batteries: 3 replaceable lithium thionyl chloride batteries Runtime: nominally 50-60 days 4-gas, 80-85 days without combustible sensor															
PHYSICAL	Weight: 0.7 kg Dimensions: 132 x 142 x 69 mm															
ALARMS	Audible: 90 dB @ 0.3 m Visual: RGB LED															
DATA LOGGING	Periodic, Event, Instrument, Calibration logs stored on detector (at least 2 months) and sent to Safety io Grid.															
RANGE	Up to 300 m line of site HUB to detector 2 mesh hops to extend range.															
RADIO	868 MHz (region dependent), Bluetooth, RFID															
SENSORS	<table><tr><th>Gas</th><th>Range</th><th>Resolution</th></tr><tr><td>LEL</td><td>0-100%</td><td>1%</td></tr><tr><td>O₂</td><td>0-30%</td><td>0.1%</td></tr><tr><td>CO</td><td>0-1999 ppm</td><td>1 ppm</td></tr><tr><td>H₂S</td><td>0-200 ppm</td><td>1 ppm</td></tr></table>	Gas	Range	Resolution	LEL	0-100%	1%	O ₂	0-30%	0.1%	CO	0-1999 ppm	1 ppm	H ₂ S	0-200 ppm	1 ppm
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LEL	0-100%	1%														
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CO	0-1999 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 (b,g)
ETHERNET	10/100 mbit

Certifications

ALTAIR io360 Gas Detector Certifications

CSA (Canada, U.S.)
DIVISION Class I, Division 1, Groups A, B, C, and D
ATEX
ZONE II 1G Ex da ia IIC T4 Ga
IEC
ZONE Ex da ia IIC T4
General
TEMPERATURE RATING T4, -40°C ≤ Ta ≤ +60°C

MSA HUB Certifications

CSA
DIVISION Class I, Division 2, Groups A, B, C, and D
ZONE Ex ec IIC T4 Gc (Zone 2)
ATEX
ZONE II 3G ec [ic] IIC T4 Gc
IEC
ZONE Ex ec [ic] IIC T4
General
TEMPERATURE RATING -20°C ≤ Ta ≤ +60°C

Additional certification information available at msasafety.com.

ENHANCE YOUR ALTAIR io360 GAS DETECTOR EXPERIENCE

safety^{io} grid



FLEET MANAGER

Assess, address, & share your MSA fleet status—all from your browser.



LIVE MONITOR

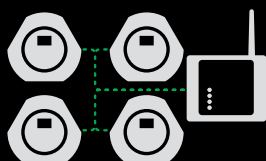
Know what's going on—and take action—when seconds count.

For more information, please visit safetyio.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.

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

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 proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

ALTAIR io360 Gas Detector Basic Configurations*

ATEX Configurations	Quantity	Color	
		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
H ₂ S	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*

Detectors with combustible sensors must be calibrated with 1.45% or 2.5% methane concentration cylinders.

10207603	58 L, Methane 2.5%, O ₂ -15%, CO-60 ppm, H ₂ S-20 ppm
10053022	58 L, Methane 1.45%, 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)

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