ALTAIR® io360

Gas Detector

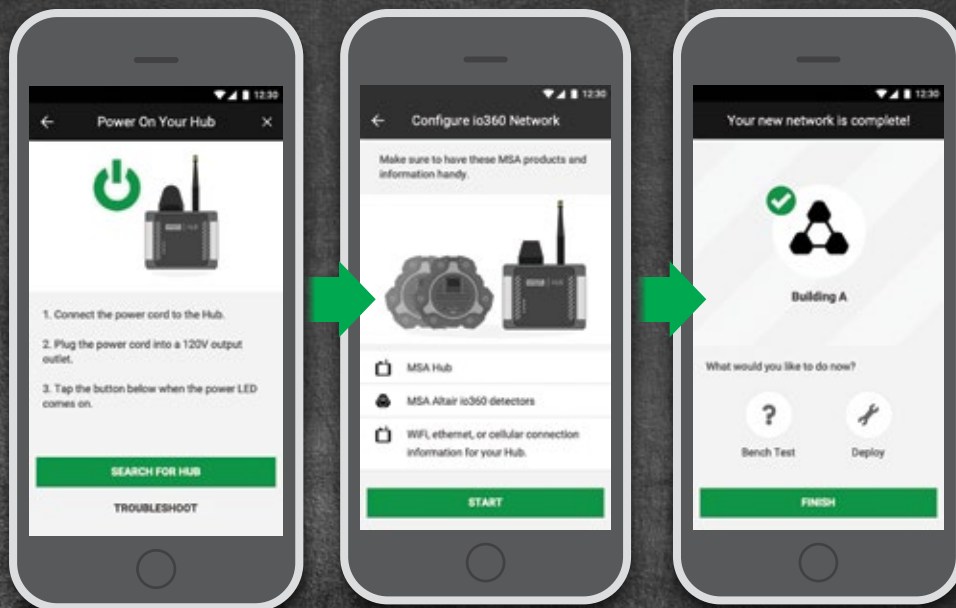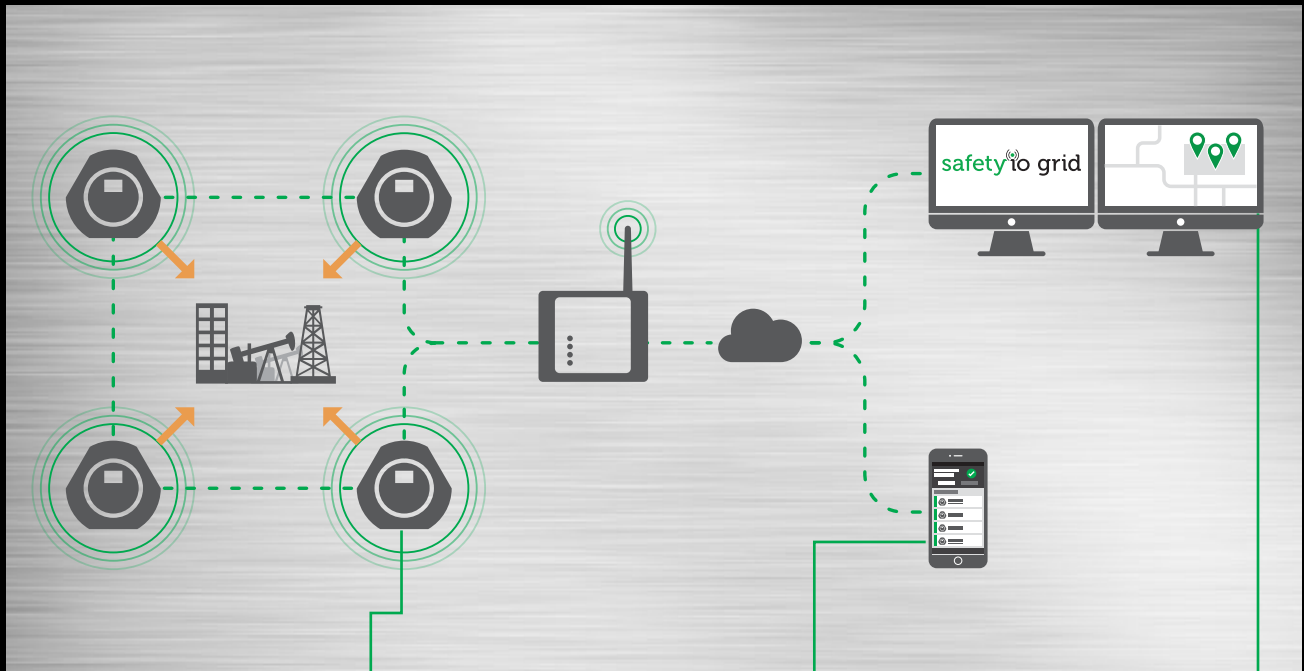## THE FUTURE OF AREA MONITORING.

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 32 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 Class 1, Division 1 (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

80–85 DAYS
1–3 GAS

Catalytic Bead Combustible, O_2, & CO/H_2S

O_2 & CO/H_2S

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

5

Better Sensors Mean Better Performance.
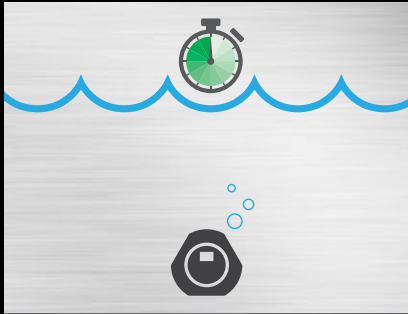
WITH MSA XCELL® SENSOR TECHNOLOGY, YOU GET:

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.

COMBUSTIBLE   **TOXIC**   **O_2**

TOXIC (PICK 1)   • CO/H_2S • H_2S • CO

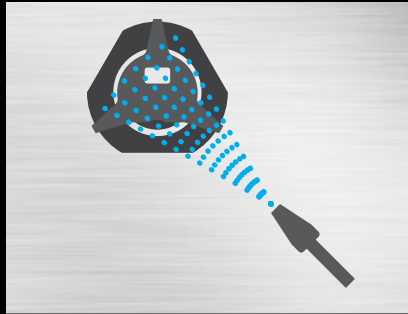*ALTAIR io360 Gas Detector use XCell® Combustible and Toxic sensors*

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

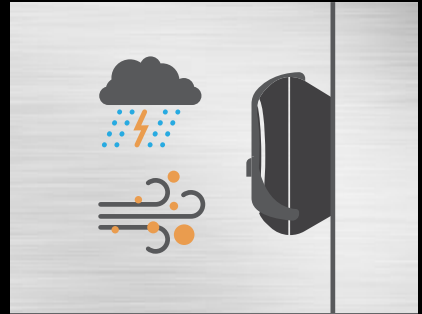You work in tough environments. Your gas detectors need to work in them too.

SUBMERGE IT*
6.6 ft. (2 m) for
up to 60 minutes.

SPRAY IT*
Resistant to sprays.

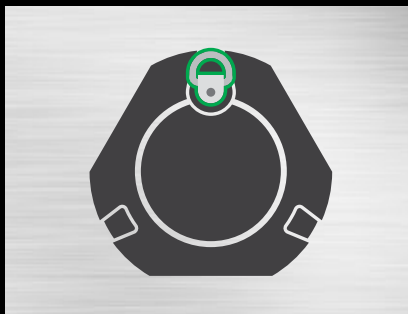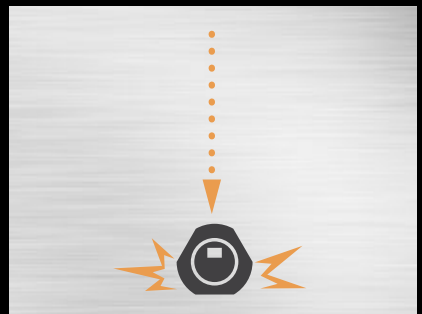## WEATHER IT*
Withstands heavy rain,
wind, and dust.

STICK IT
50 lb. (220 Newton)
force magnet.

HANG IT
Integrated D-ring.

DROP IT
Drop tested
at 10 ft. (3 m).

COMPACT
1.6 lb. (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:** 10 ft. (3 m) **Ingress Protection:** IP68
TEMPERATURE	**Normal Operating:** −4° to 131° F (−20° to 55° C) **Extending Operating:** −40° to 131° F (−40° to 55° C) **Storage:** 32 to +95 °F (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:** 1.6 lb. (0.7 kg) **Dimensions:** 5.2" x 5.6" x 2.7" (132 x 142 x 69 mm)
ALARMS	**Audible:** 90 dB @ 1 ft. (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 1000 ft. (~300 m) line of site HUB to detector 2 mesh hops to extend range.
RADIO	915 MHz, Bluetooth, RFID

SENSORS	Gas	Range	Resolution
	LEL	0-100%	1%
	O_2	0-30%	0.1%
	CO	0-1999 ppm	1 ppm
	H_2S	0-200 ppm	1 ppm

MSA HUB Specifications

WARRANTY	4 years
DURABILITY	Ingress protection IP67
TEMPERATURE RANGE	−4° to 140° F (−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:** 3 lb. (1.4 kg) **Dimensions:** 7.5" x 7.7" x 3.9" (190mm x 195mm x 99mm)
RADIO	915 MHz, Bluetooth, Cellular 2G/3G/4G, 2.4 GHz Wi-Fi (a,b,g,n)
ETHERNET	10/100 mbit

Certifications

ALTAIR io360 Gas Detector Certifications**

UL (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***

QPS/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

* CSA & Inmetro Pending
*** Inmetro Pending
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.
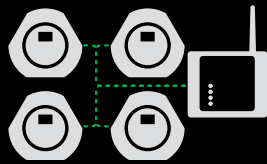
LIVE MONITOR
Know what's going on —and take action— when seconds count.

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, 16, OR 32 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 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*

UL (U.S.) Configurations	Quantity		Color	
			Black	Green
LEL, O$_2$, CO/H$_2$S	Preconfigured Kits with MSA HUB	4 pack	10207176	10207459
		8 pack	10207456	10207438
		16 pack	10207467	10207460
		32 pack	10207452	10207439
	Single Detector	1 pack	10207181	10207442
H$_2$S	Preconfigured Kits with MSA HUB	4 pack	10207435	10207407
		8 pack	10207420	10207424
		16 pack	10207421	10207403
		32 pack	10207432	10207408
	Single Detector	1 pack	10207419	10207406

Accessories*

10200411	MSA HUB, ALTAIR io360, 915 MHz
10195741-SP	MSA HUB ethernet cable
10205504	Sunshield, io360

Calibration*

10048890	58 L, Methane 2.5%, O$_2$-15%, CO-60 ppm, H$_2$S-20 ppm
10153845	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, calbiration, 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
10195720-SP	MSA HUB AC cord, NA (type B)
10208430-SP	MSA HUB AC cord, CH (type L)
10208431-SP	MSA HUB AC cord, AR (type I)

*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**.