

# ALTAIR io™ 6 Gas Detection Wearable Specifications



## Device Specifications

<b>APPLICATIONS</b>	Turnarounds & Plant Maintenance, Emergency Response, Confined Space
<b>MARKETS</b>	Utilities, Construction, Oil & Gas, Mining, Fire Service, General Industry
<b>DATA LOGGING</b>	Minimum 90-day cloud-synced data logs. Device data synced and stored in customer Grid account.
<b>SIZE</b>	
WEIGHT	.9lb (14.4 oz)
DIMENSIONS	5.90 x 3.23 x 2.24 in (14.98 x 8.20 x 5.69 cm)
<b>DURABILITY</b>	<ul style="list-style-type: none"> <li>Exceeds 26 drops from 4 feet (1.2 m) (MIL-STD-810G 516.6 Transit Drop)</li> <li>Capable of surviving an incidental 10 foot (3 m) drop onto concrete</li> <li>Survives 60 minutes in NFPA 1982-2018 tumble tester</li> <li>Dust and waterproof IP65 rating</li> </ul>
<b>APPROVALS/STANDARDS</b>	FCC and Industry Canada CSA Class I, Division 1, Groups A, B, C and D T4 -20C to +55C Class I, Zone 0, AEx da ia IIC Ga T4



## Battery & Charging

<b>BATTERY</b>	Removable and Rechargeable
<b>CHARGING TIME</b>	Typical full charge is 6.5 hours at room temperature
<b>CHARGING TEMP. RANGE</b>	0°C-40°C
<b>BATTERY LIFE</b>	16 hours typical: 13 hours with PID sensor <i>Actual battery run-time will vary depending on factors including cellular coverage, GPS coverage, ambient temperature, usage, active alerts, acknowledgment delay of alerts, location changes, RFID reading, gas readings, device navigation, battery age, and battery cycles.</i>

## Sensor Life

Gas	Detection Type	Sensor Life*	Range
<b>COMBUSTIBLE</b>	Catalytic	5 years	0-100% LEL <b>or</b> 0-5% Vol CH4
O <sub>2</sub>	Electrochemical	7 years	0-30% Vol
CO	Electrochemical	7 years	0-2000 ppm
H <sub>2</sub> S	Electrochemical	7 years	0-200 ppm
CL <sub>2</sub>	Electrochemical	4 years	0-10 ppm
NH <sub>3</sub>	Electrochemical	4 years	0-100 ppm
SO <sub>2</sub>	Electrochemical	7 years	0-20 ppm
NO <sub>2</sub>	Electrochemical	7 years	0-50 ppm
VOCs	PID	3 years	0.1 ppm (0-999ppm) <b>or</b> 1 ppm (1000-2000ppm)
CO - HYDROGEN RESISTANT	Electrochemical	7 years	0-1999 ppm
H <sub>2</sub> S - LOW CONCENTRATION	Electrochemical	7 years	0-100 ppm
CO <sub>2</sub>	Infrared		
COMBUSTIBLE	Infrared		
ADDITIONAL TOXIC & EXOTIC GASES	Electrochemical		

\* Typical sensor life can vary due to environmental conditions and/or combustible sensor poisoning

## Connectivity Specifications

<b>LOCATION AWARENESS</b>	GNSS	Concurrent GNSS (GPS, GLONASS, and Galileo) with Assisted GNSS
<b>GPS UPDATE FREQUENCY</b>	30 seconds*	* Location is updated every 30 seconds when a position is acquired. When no position is acquired, the device searches for a location every five minutes to conserve battery life of the device.
<b>GPS ACCURACY</b>	8 ft. (2.5 m)*	* GPS accuracy will be influenced by surroundings, infrastructure, and environmental conditions.
<b>RFID READER</b>		Used by MSA id Tags for digital device assignment & DOCK communication
<b>CONNECTIVITY</b>	CELLULAR	LTE-M
	CELLULAR CARRIERS	Eseye AnyNet connectivity
	BLUETOOTH	v4.1 Bluetooth Low-Energy (BLE)

COMING SOON

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. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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