

Omni-2100

Autonomous Volatile Organic Compound (VOC) Analyzer

Data Sheet

Product Features

- Multiple gas detection**
 Up to 20 VOC gas types
 Detection as low as 1 ppb
- Real-time Measurements**
 Timely actionable insights
 Programmable sampling time
- Autonomous**
 Standalone portable analyzer for indoor and outdoor use
 Lab quality results
- Cost Effective**
 Eliminates costs associated with labor, carrier gas, processing time, and laboratory tests
- Cloud based IoT Platform**
 Single screen management console
 Remote management capability
 Clustering capability
 FedRamp Infrastructure
 Over-the-air software updates
- Broad Connectivity**
 Wi-Fi, Cellular 3/4G/LTE
 Enables remote and local deployments
- High Reliability**
 No carrier gas
 Low voltage operation



Product Overview:

The OMNI-2100 is a portable, autonomous, cloud-enabled VOC analyzer designed to operate in both indoor and outdoor environments. The analyzer's autonomous and real-time measurement capabilities enable timely actionable insights and eliminate operational and service costs associated with labor, processing time, and laboratory testing.

The Omni-2100 was developed with ease-of-use and manageability in mind. Cloud based IoT connectivity allows each analyzer or a cluster of analyzers to be managed remotely through a single screen management console. Connectivity includes Wi-Fi and cellular (GSM and LTE). This capability enables analyzers to be deployed at local and remote locations and managed from anywhere in the world. All data processing is done on the analyzer and only results are transmitted to the cloud for storage and access. Thus reducing processing time and transmission costs.

The management application tool tracks VOC data over time, monitors analyzer health, identifies analyzer location, and provides customers with the ability to program measurement frequency.

Analytical Data Earlier Data	
Measurement Start Time: 2018-06-11 10:43:14	
Data Upload Time: 2018-06-11 13:14:44	
Show Retention Times	
Chemical_Name	Concentration (ppb)
benzene	169.09
toluene	101.61
m-xylene	104.19
o-xylene	103.2

All Specifications Are Subject to Change This Document Is for Reference Only. Go to [Http://www.Omniscient.Com](http://www.Omniscient.Com) For the Latest Support Documentation and Related Media.

Product Specification

Characteristics

VOC Detector	Omniscient MEMS based technology
Other Sensors	Temperature, relative humidity, flowmeter, and photoionization detector (Total VOC measurement 50 ppb- 200 ppm)
Pump Flow Rate	0.5- 15 sccm
Communication / Connectivity	Wi-Fi and LTE
Sensor Cloud	Secure IoT cloud infrastructure
Sampling Time	3 minutes to 1 hour (User programmable. Refer to product manual for settings)
Embedded Data Storage	16 GB

Output results

Measuring Component	Benzene, toluene, m-xylene and o- xylene (BTX)
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Limit of Detection (LOD)

(Refer to the manual for details)

Benzene	1-3 ppb
Toluene	1-3 ppb
m-xylene	1-3 ppb
o- xylene	1-3 ppb

Power Requirements

Power Supply Input	100-120/200-240 VAC
Power Supply Output	V1: +12V/7A; V2: +24V/4A
Fail Safe	4 A
Power Consumption	50 W Max, 4 W Idle

Environmental Requirements

Humidity	0 - 80% (Refer to the manual for detail)
Ambient Temperatures	5 to 40 °C (41 to 104 °F)

Field Installation

Dimensions	Height: 29.1 cm (11.46 in.), Width and Depth: 19.4 cm (7.64 in.)
Weight	4.8 Kg (10.5 lb)
Housing material	Stainless steel

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