Handheld VOC Detector

IVOC-2000 handheld VOC detector, using PID detector (photoionization detector), can be used in environmental law enforcement and enterprise unorganized VOC gas concentration detection. With light weight, good detection performance and simple operation, the instrument meets customers' requirements for rapid and accurate detection of VOC.

Feature

- JAVA development;
- Real-time display: real-time concentration value, maximum value, minimum value, average value, date and time, correction factor, curve, battery power; Real-time graph; Display the current concentration trend chart in real time;
- Data recording: data recording interval can be set;
- Historical data query: the maximum, minimum and average values of the test results can be queried; - Data export: support USB and wireless export;
- Data transmission: The test results can be sent through QQ, wechat and email on the instrument;
- Create working curves: Multiple working curves can be created for more accurate detection.
- Transmission :Type-c. WiFi, Bluetooth BT4.0.

ISerial number	Sensor	PID lamp	Detection pattern	Minimum detection limit	Response time (T90)
1	VOC	10.6ev	0~4000ppm	100ppb(0.1ppm)	＜3s
2			0~40ppm	1ppb(0.001ppm)	＜8s
3			0~10000ppm	500ppb(0.5ppm)	＜8s

Specification

Range	0-4000ppm
Detection limit	0.1ppm
T90 Response time	<3s
Detection accuracy	＜±5%
Battery capacity	4400mAH
Endurance time	More than 10 hours
Screen size	4 inch touch screen
Sampling method	Pumping type
Sampling velocity	0.2 ~ 0.6 Limin
Service temperature	- 10 ℃ ~ 45 ℃
Sample gas humidity	<95% relative humidity (non-condensing)
Instrument weight	502g
Instrument size (mm)	107*35*81 (Length * width * height)

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IVOC adopts high stability, high sensitivity PID photoion sensor, zero self-calibration, adjustable sampling pump speed and other proprietary technologies, which can accurately detect volatile organic compounds with a maximum concentration of 10000ppm in real time. ZWIN100X adhere to the practical strategy, equipped with high energy efficiency lithium batteries, intelligent power management; Large capacity data can be stored automatically, and data can be processed directly on the offline and computer through USB connection. Can quickly detect and store volatile organic compounds gas concentration, temperature, humidity on site. Achieve simple operation and convenient maintenance. Widely used in petrochemical, emergency rescue, industrial safety, coking, electronics, rubber, spraying and other industries to achieve equipment leak detection. On-site comparison testing, environmental law enforcement testing, personal safety protection.

Feature

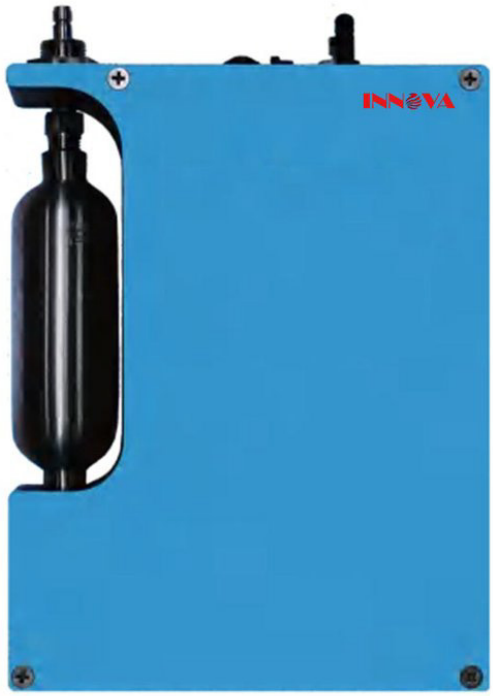
- The sensor has high sensitivity, accurate measurement and detection accuracy up to ppb level
- Built-in temperature, humidity and pressure sensor, automatic compensation, to ensure the accuracy of detection
- Built-in powerful sampling pump, adjustable high and low speed, high speed sampling distance is greater than 10 meters, rapid response to broad spectrum detection, built-in more than 200 kinds of VOC monitoring factors, convenient for users to choose
- External sensor compartment, easy maintenance, no need to disassemble sensors and filters can be replaced Built-in water vapor, dust filter, can effectively prevent water vapor and dust damage to the instrument components.

Specification

Model	IVOC-1001	IVOC-1002	IVOC-1003	IVOC-1004
Explosion-proof class	Ex ia IICT4 Ga		/	
Case color	Blue		Yellow	
range	lppb-10,20,100,200ppm	1ppm-1000, 2000, 5000,10000ppm	lppb-10,20, 100,200ppm	1ppm-1000, 2000, 5000,10000ppm
Resolution	0.1~1 PPM			
Detection gas	200 kinds of VOC gases			
Detection principle	PID photoion			
Settling time	<15S			
key	4 operating keys			
Sampling mode	Built-in pump suction, flow 250-550ml/min			
Measurement accuracy	<± 3%			
Response time	(T90) Less than 5s			
sensor	PID,10.6ev, smart sensor			
Data recording	600,000 pieces			
Dimensional	84×53×260 (mm)			
Weight	629g			
Battery	3.7V.5000mAh lithium battery			
Charging time	≤7 hours			
Running time	10 hours			
Display screen	2.4 inch 240 x 320 dot matrix 65K color TFT screen			
Alarm light	Red LED, flashing			
Audible alarm	The buzzer 95dB@30cm			
Vibration alarm	There are			
Communication port	USB			
Class of protection	IP66			
Humidness	0~95%RH			

Portable VOC detector

IVOC-3000 portable VOCs detector is a VOCs total amount (total length) detector through explosion-proof certification, the use of FID detector (hydrogen flame ionization detector) can well meet the needs of customers for a variety of on-site rapid and accurate detection of VOCs total amount (total vertical >). The product has the characteristics of small size, light weight, good detection performance, wide range and simple operation.



Feature

- Hydrogen flame ionization detector (FID), it is a typical destructive, mass detector, is the flame generated by hydrogen and air combustion as energy, when organic compounds enter the flame of hydrogen and oxygen combustion, chemical ionization is produced at high temperature, ionization produces ions several orders of magnitude higher than the base flow, under the directional action of high voltage electric field, the formation of ion flow, The weak ion stream is amplified with high resistance and becomes an electrical signal proportional to the amount of organic compounds entering the flame, so organic matter can be quantitatively analyzed according to the size of the signal.
- Application Fields:
  Petrochemical,chemical， pharmaceutical,resin， fertilizerand other industries; LDAR (Leak Detection and Repair);Soil VOCs detection; Factory environment vocs detection;Fugitive emission field emergency detection; Rapiddetection of emissions from stationary pollution sources;Effect evaluation of vocs treatment facilities; vocssource investigation; Fugitive vocs detection ofwastewater pools; Oil gas recovery inspection at gasstations or bulk petroleum terminals.
- Manual operator
  The hand operator is composed of explosion-proof smart phone and portable VOCs analysis software. The hand operator communicates with the instrument through Bluetooth, and the APP realizes Bluetooth connection, ignition, calibration, reading, result recording and query.

Specification

Model	IVOC-3000
Detection limit	0.5ppm
Measuring range	0-50000ppm
Accuracy	<±5% (methane standard gas :500ppm)
Response time	T90 in 3.5 seconds (1 meter long sample tube)
Hydrogen bottle	Capacity 100ml, maximum working pressure 20MPa Hydrogen use time: more than 12 hours
Battery working time	10h
Weight	3.85Kg
Shell size	25.0*19.3*6.2 (cm)
Explosion-proof mark	Ex d ia mb llCT4 Gb
Ambient temperature	-10℃~+45℃
Repeatability	<2% (methane standard gas :500ppm)