VASTHI
INSTRUMENTS

Portable VOC Monitor

MODEL NO
V² Series

About Vasthi:

Vasthi Instruments is a leading Indian manufacturer of gas detectors. Our V² Series humidity-resistant PID sensor technology is trusted by major global users for the fast, accurate detection of volatile organic compounds (VOCs).

What is a VOC?

Volatile organic compounds called VOC for short-term, are a myriad of naturally occurring and artificially made chemicals found everywhere. These compounds are considered volatile because they vaporize at the earth's natural temperature and release molecules into the air. Common industrial solvents like trichloroethylene (TCE), fuel oxygenate like methyl tert-butyl ether (MTBE), and by-products of chlorination in water treatment like chloroform, etc can be termed VOCs.

VOCs are crucial in manufacturing various household products like cleaning liquids, arts and crafts products, air fresheners, cosmetics and deodorants, office printers, and copiers. They form the components of many synthetic materials and such as plastics, rubbers, adhesives, paints, etc. They are widely used in the production of pharmaceuticals and fuel for transport and heating.

Studies show that VOC concentration is more likely to be higher indoors than outdoors. Most VOC sensors are continuously triggered during the night. This is a result of a spike in carbon monoxide (CO) levels from industrial emissions, water heaters, furnaces, and even indoor products like emulsions, wood burning stoves, tobacco smoke, etc. while storage and usage, materials like paints, varnishes, cleaning, disinfecting products, etc release organic compounds.

Short-term exposure to volatile organic compounds can cause eye, nose, and throat irritation. Long-term exposure, to even very low concentrations may damage the liver, kidneys, and central nervous system, and can even cause cancer. Therefore, accurate sensing of VOCs is critical for protecting people, and the environment, and optimizing industrial processes.

Applications:

Our volatile organic compound detectors are designed to be used in a multitude of industries and applications to detect gas or vapor. Here are some examples where Vasthi VOCs are applicable.

Industries:

- Oil & Gas
- Petrochemical
- Pharmaceutical and Medical
- Food & Beverage
- Universities and Laboratories
- Government & Defense
- Manufacturing
- Semiconductors
- Construction
- Aerospace
- Water

Applications:

- Air Quality
- Fence Line Monitoring
- Fugitive Monitoring
- Industrial Health and Safety
- HVAC & Building Control
- Semiconductor
- Leak Detection
- Power Storage
- Solar Farms
- Li-ion Battery Monitoring
- Site Investigation
- Fertility & Clandestine Labs
- Emergency Response
- Fracking
- Decontamination

Technical Specifications :

☞ Display	TFT Capacitive Touch Display
☞ Sampling Method	Auto Suction with inbuilt high capacity pump
☞ Sensor	PID
☞ Zero Calibration	User friendly ZERO Calibration function
☞ Span Calibration	User friendly SPAN Calibration function
☞ Real time clock	Time and Date with location save facility
☞ Storage Temp	-5 to 50°C
☞ Bluetooth	Can connect any printer to get instant print of flue gas analysis
☞ USB	User can download the history data at anytime using USB
	Vasthi Interface software
☞ Battery	3.7V/3000 mAh/12 hours continuous
☞ Mains Power Supply	Mini USB 5V
☞ Enclosure	ABS IP 65
☞ Dimensions	Check drawing
☞ Weight	450 grams
☞ Digital Interface	USB
☞ Printer or Data Communication	Optional wireless Bluetooth Smart Printer.

Ordering Information:

1. IE Benzene
2. IE Butadiene
3. IE Xylene

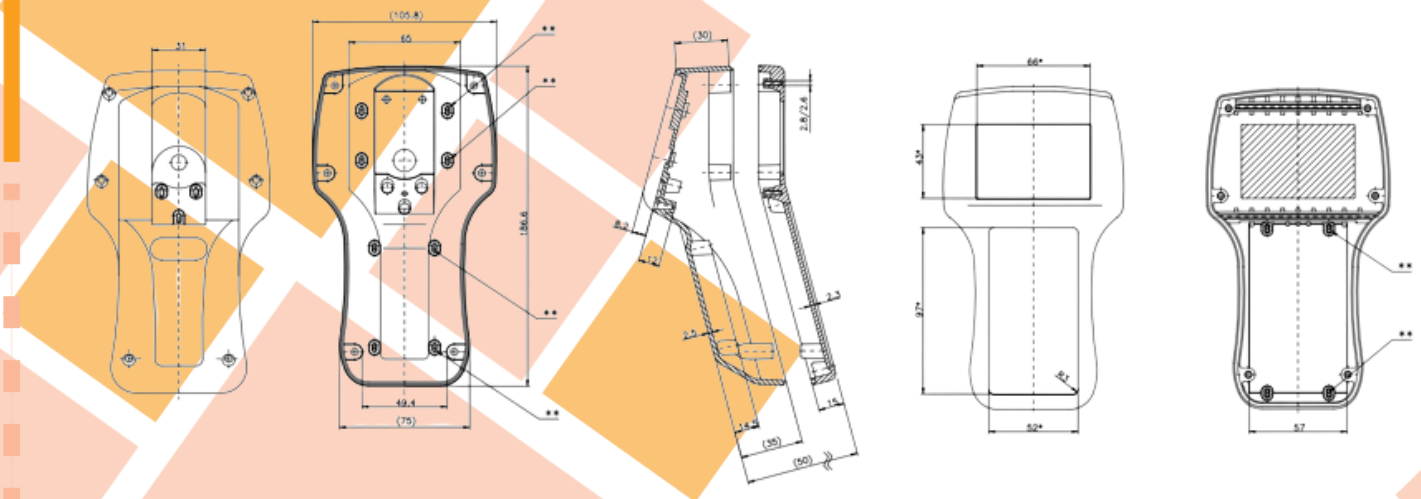
$V^2 - 1$

1. IE Methyl Bromide
2. IE Hydrogen Sulphide
3. IE Ethanol
4. IE Ammonia
5. IE Isopropanol
6. IE Hexane

$V^2 - 2$

1. IE Dichloromethane
2. IE Formaldehyde
3. IE Methanol

$V^2 - 3$



VASTHI INSTRUMENTS

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