

Handy VOC Sensor

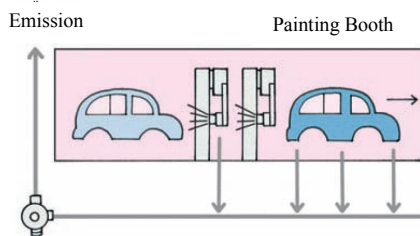
Easy-to-use, Quick, In-situ,
Handheld Organic Vapor Sensor

IER Method

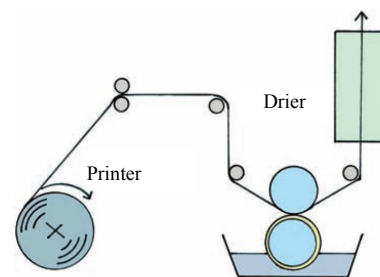
Ideal for Screening and
Monitoring of VOC emission



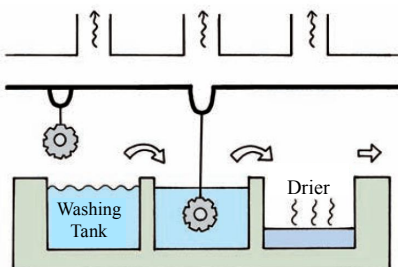
Painting & Coating



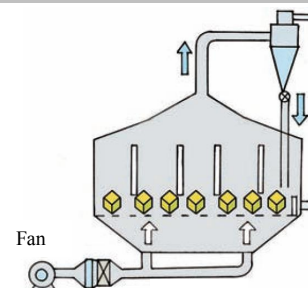
Printing



Industrial Cleaning



Chemical Products Manufacturing (Drier)



Reference: The Ministry of Economy, Trade and Industry of Japan "A handbook regarding limiting the emission of VOCs"

Other Examples of Use

- On-site Monitoring of VOC Emission to utilize in Health and Safety check, etc.
- Leak Detection, Field Monitoring, Site Characterization & Screening
- Operational Control and Performance Evaluation of Drier and VOC Removal/Solvent Recovery Plants
- Research and Development, etc.

On-site Quick & Handy Detector of Total VOCs

- Quick response to total VOCs within 10 seconds*
- Extended detection range: 1 ppm to 2500 ppm (also available in higher ranges)
- Excellent correlation to Gas Chromatography for certain VOCs when identified
- Small, handheld, and user-friendly tool
- Stable and driftless semi-continuous monitoring with self-cleaning function
- Up to 1000 points memory data downloadable to Windows-PC via USB

*May take more than 10 seconds with high-molecular-weight VOCs

Specifications

Model		VOC-121H
Sensing Principle		Interference Enhanced Reflection (IER) method based on swelling of a polymeric film
Detectable Compounds		Total Volatile Organic Compounds (VOC : a majority of organic solvents) Examples : Fuel oils(gasoline, jet fuels, kerosene, diesel oil, heavy oil), Aromatics (benzene, toluene, xylene), Chlorinated hydrocarbons (dichloromethane, trichloroethylene, tetrachloroethylene, chloroform), Typical Organic solvents: alcohols(ethanol, isopropanol, butanol), ketones(acetone, methyl ethyl ketone, methyl isobutyl ketone), amines, silicone, and other saturated and unsaturated hydrocarbons
Measurement Range	Low	Automatically-switched measurement (Low → High, High → Low) • Type I : Low 1 ~ 100ppm → High 25 ~ 2500ppm • Type II: Low 3 ~ 300ppm → High 75 ~ 7500ppm (as toluene equivalency) • Type III: Low 10 ~ 1000ppm → High 250 ~ 25000ppm
	High	Choose one of the above Types when placing your order : Performance based on toluene gas calibration
Display		LCD : VOCs (ppm) by volume & Detector temperature (°C)
Accuracy		Toluene: within ±20 % of readout or within ±2 % of a full-span of operating range
Repeatability		About ±10 %
Sample Gas Temperature		5~50 °C
Sample Gas Humidity		0~100% relative humidity (non-condensing: preferably within ±20% against zero-calibrated air)
Sampling Pump		Internal miniature diaphragm pump with integrated flow rate of 250~300 cc/min.
Measuring Time		About 10 to 30 seconds: dependent on ambient temperature
Environment		0~40 °C 0~95 % relative humidity (non-condensing)
Battery		• 4 x AA (R6) batteries (Alkaline battery or Rechargeable Nickel-Metal-Hydride (Ni-MH) battery) • AC100V (using an AC adaptor) * An operating time depends on a battery performance: typically 8 to 10 hours continuous operation
Size		275 mm (L) × 78 mm (W) × 41 mm (H)
Weight		About 400 g (including batteries)

Typical Functions

Calibration	Automatic on-site calibration with zero air (via a charcoal filter): Span calibration available with a standard toluene gas.
Sensor Lifetime	Approx. 1 year for a sensing chip: Lifetime depends on users & conditions; self-diagnostic function
VOC Conversion Factor	VOC-Factor setting from 0.1 to 99.9 available as toluene equivalency: More than 70 VOCs conversion table available
Data Memory	1000 points : serial number, date/time, AVG&MAX VOC values, detector temperature, range, and setting parameters
Communication	Download data to PC via USB port: Software available for Windows 98, 2000, XP, Vista & 7 includes an interface cable
Alarm	User adjustable VOC concentration alarm : 10ppm steps up to 99990 ppm
Monitoring	Automatic semi-continuous operation at user-setting intervals (1 to 60 min.) with datalogging

MADE IN JAPAN

Measurement Flow

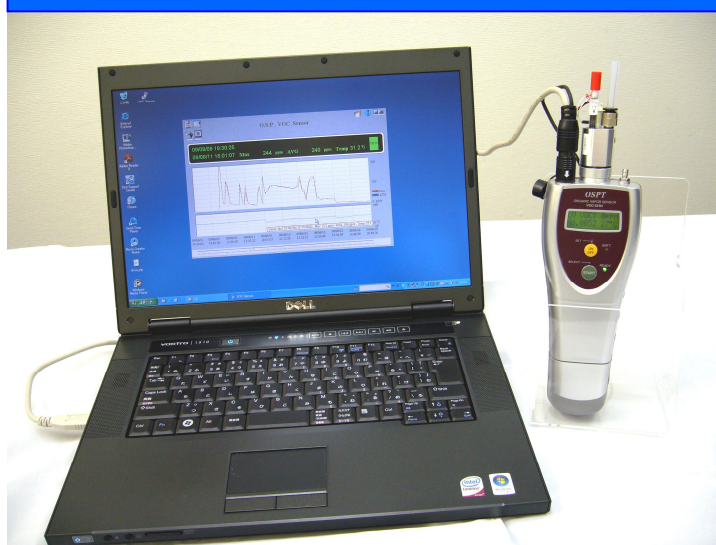
Easy-to-use: ON/OFF & START Keys Only



1 cycle needs about 1 minute*

*May take more than 1 minute with high-molecular-weight VOCs

For further information on OSP's Handy VOC Sensor and others, please contact the below-written distributor.

Accessories**PC Communication via USB Interface**

※ These specifications and functions are subject to change

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