



# APM 802



## NEED OF MONITORING

All over the world air pollution monitoring networks are making intensive efforts for monitoring of specific organic compounds such as Benzene, Toluene & Xylene and other Hydrocarbons. In India the Central Pollution Controlled Board (CPCB) has included Benzene as a parameter in Ambient Air Quality Standards revised in 2010

## APPLICATION

This instrument is used for monitoring Volatile Organic Compounds present in the Ambient Air. It is a battery operated instrument. After an over night charge the system will operate for a full 8 hour shift allowing comparison with TLV limits for toxic organics present in Indoor Environments.

## OVERVIEW

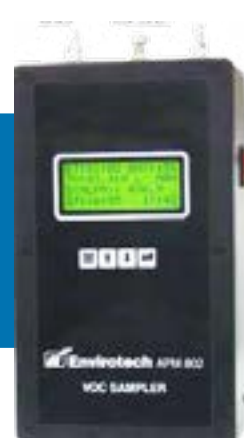
While rural environments often have high levels of pesticides and other chemicals used in modern farming, urban environments have high doses of a host of organics coming from paints & varnishes, lacquers, solvents, foam blowing agents, sprays etc. Unfortunately a majority of these compounds are highly toxic and many of them have been reported to be carcinogenic. Also, Benzene and its derivatives are a part of vehicular pollution.

## OPERATING PRINCIPAL

The APM 802 VOC Sampler can be used to collect air samples in Tedlar Bags. Alternatively an adsorption tube may be connected at the suction port to trap VOCs present in ambient air. VOCs are collected from ambient air by adsorption on a suitable collection matrix such as activated charcoal and desorbed for analysis via GC. The APM 802 uses a digital flowmeter to accurately measure low flow rates in the range of 20 to 200 ml/min. Very low flow rates coupled with its feature of collecting a composite sample allows the user to collect a representative sample over several hours without fear of sample loss due to saturation or breakthrough in the adsorbing column.



# APM 802



## FEATURES

- Portable, battery operated low flow, pump.
- Oil-free pump has low noise and requires little maintenance.
- Built-in Flow Totalizer directly indicates the volume of air sampled in liters.
- Programmable Micro-controller based timer allows operation in cyclic manner for collection of composite samples.
- Same hardware can be used for monitoring a wide variety of organic compounds.
- Rechargeable Li-ion battery pack allows operation for at least 8 hours after overnight charging.

## SPECIFICATIONS

Flow Rate Range	20 to 200 ml/min.
Flow Control	Continuously adjustable with a precision needle valve.
Display	LCD 16 characters, 4 line display; The instrument constantly displays flow rate and total volume of air sampled.
Operation Mode	Continuous and compositing. In continuous mode air sample is collected continuously at a flow rate set by the user. In Compositing Mode, the pump is operated as per programmable ON & OFF cycle. So a composited sample consisting of small spaced out samples is automatically collected. The instrument displays and records the total volume of air sampled.
Timer	In built digital timer can be programmed to Start / Stop pump operation at a pre-set time.
Elapsed Time Indicator	Sample operation period in minutes displayed on LCD.
Choice of Sampling Media	The APM 802 sampler allows the user to use adsorbing media such as charcoal tubes or collect a filtered air sample in Tedlar Bags. A Filter holder designed for 25mm diameter filters is provided with the system.
Battery	The APM 802 VOC Sampler is provided with a re-chargeable Li-ion battery pack. The instrument will operate for 10 hours in continuous mode and 24 hours in compositing mode with a fully charged battery. A built-in battery status facility allows the user to check useable battery life and automatically prompts the user when the battery is running low. To prevent battery damage the instrument will automatically shut-down when the battery voltage drops to a pre-set level.

# 1 Year Warranty

\*Specifications are subject to change without any prior notification



For More Information Contact

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