



# APM 856



## APPLICATION

This instrument provides a system which meets all important requirements for field measurements of Organic Vapour and pollutants in ambient air. APM 856 is a battery operated instrument. After an overnight charge the system will operate for a full 8 hour shift allowing comparison with TLV limits for toxic organics present in Shop Floor Environment.

## WORKING PRINCIPAL

The APM 856 Organic Vapour Sampler collects samples of organic compounds present in ambient air by adsorbing them on an activated charcoal column. The organics are then desorbed and analyzed via a Gas Chromatograph to estimate the actual concentration in ambient air. The APM 856 uses a digital flow-meter to accurately measure low flow rates in the range of 20 to 200 ml/min. These 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.

## FEATURES

- Portable, battery operated instrument.
- Digital Flow Meter provides accurate flow reading in the 20-200ml/min flow range.
- Built-in Flow Totalizer directly indicates the volume of air sampled in liters.
- Programmable Microcontroller 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.

## NEED

Over the years complex organic compounds have got into use in many diverse applications encompassing all human activities. While rural environments often have high levels of pesticides and other residues from sprays of weedicides and other chemicals used in modern farming, urban environments have high doses of organics coming from paints, varnishes, lacquers, solvents, agents, sprays etc. A majority of these compounds are highly toxic and have been reported to be carcinogenic.



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## SPECIFICATIONS

Flow Rate Range	20 to 200ml/min continuously adjustable with a precision needle valve provided for flow control.
Display	LCD 20 characters, 2 line display. The instrument constantly displays flow rate and total volume of air sampled.
Operation Mode	Continuous and compositing. In continuous mode air is passed continuously through the adsorbing media with a flow rate set by the user. In Compositing Mode, the user programs the ON & OFF cycle and the built in Microcontroller operates the system cycle of ON & OFF periods for a duration that is also programmable. So a long term averaged sample consisting of small spaced out samples is automatically collected. The instrument displays and records the total volume of air sampled.
Charcoal Tube	The APM 856 is supplied with two types of charcoal tubes. Stainless Steel tubes provided with the instrument can be directly inserted into Thermal Desorbers attached to Chromatographs. After desorption the tubes can be re-activated for immediate re-use. Alternatively the user can order glass tubes packed with activated charcoal. The contents of the tube are removed from the glass tube after sampling for desorption in Carbon Disulphide. The tubes can be re-packed with fresh activated charcoal for re-use.
Battery	The APM 856 Organic Vapour Sampler is provided with a rechargeable NiMH battery pack. The instrument will operate for 8 hours or more 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.
Weight	2.5 kg

# 1 Year Warranty

\*Specifications are subject to change without any prior notification



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