



APM 801



NEED OF MONITORING

APM 801-Factory Act 1948 as amended in 86-87 clearly lays down a requirement of regular scientific monitoring of workers' exposure for air borne dust and other pollutants. To fulfill need of monitoring exposure of the total air borne dust as well as the respirable fraction of dust, APM 801 has been developed.

APPLICATION

APM 801 is a light-weight, battery – operated Personal Sampler equipped with a cyclonic system. The sampler can be mounted on the body of the worker, since workers keep moving about on the shop floor as part of their normal duties. The sampler has a compact aluminium cabinet with a clip so that the system can be belt worn. Features designed housing and offers a high level of comfort and style.

OPERATING PRINCIPLE

The cyclone designed for cut off at 5 microns as recommended by DGMS for measurement of worker exposure to respirable dust. The air leaving the cyclone, having particles of the size 5 microns or less passes through glass micro-fiber filter of 37mm dia. housed in Teflon filter holder fitted at the top of cyclone where respirable dust get accumulated and can be quantified gravimetrically. The collected dust can further be analyzed for specific constituents viz. lead, other heavy metals, silica, etc. The APM 801 can sample air at flow rates from 0.5 to 3.0 LPM. For optimum efficiency of the cyclonic system, the flow rate needs to be maintained between 1.6 and 1.9 lpm.

In APM 801 rechargeable Ni-Cd batteries are provided with sufficient storage to operate the system for full shift of 8hrs making it compatible for TLV measurements. A separate battery-charger is provided with the system to recharge the batteries overnight.



APM 801



FEATURES

- Measures worker exposure for respirable dust, which is considered as one of the main criteria to establish associated health risk.
- Light-weight, battery – operated Personal Sampler equipped with a cyclonic system. The sampler can be mounted on the body of the worker. The sampler has a compact aluminium cabinet with a clip so that the system can be belt worn.
- The cyclone designed for cut off at 5 microns as recommended by DGMS for measurement of worker exposure to respirable dust.
- The collected dust having particles of the size 5 microns or less can further be analyzed for specific constituents viz. lead, other heavy metals, silica, etc.
- Flow rates can vary from 0.5 to 3.0 LPM. For optimum efficiency of the cyclonic system, the flow rate needs to be maintained between 1.6 and 1.9 lpm.
- In APM 801 rechargeable Ni-Cd batteries are provided with sufficient storage to operate the system for full shift of 8hrs making it compatible for TLV measurements.
- A separate battery-charger is provided with the system to recharge the batteries overnight.

SPECIFICATION

Flow Rate	0.5 – 3.0 LPM.
Cyclone:	Brass with teflon filter holder to cut-off at 5 microns
Filter	37 mm diameter glass fiber filter discs
Operation Time	8 hours on fully charged batteries.
Battery	Ni – Cd rechargeable
Recharge Time	12 – 14 hours after discharge
Size	155mm x 82mm x 60 mm.
Weight	1.3Kg approx. (with cyclone)

1
Year
Warranty

*Specifications are subject to change without any prior notification



For More Information Contact

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