

# HANDY SAMPLER (SSES-HS-001)

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## APPLICATIONS:

The increasing general awareness of atmospheric pollution and its hazards to the health and wellbeing of industrial workers is bound to result in greater stress on accurate, reliable and frequent assessment of work place pollution and worker-exposure. The data generation needed for corrective measures to safe the workers as per Factory act 1948 and amendment in 1986-87.

Soniya Scientific Equipment Solutions Pvt Ltd designed a handy sampler SSES-HS-001, that inbuilt with best light weight pump battery operated to suck air through 25 mm dia filter for PM and through suitable absorption solution contained in impingers (2Nos) fitted. Thus besides particulates any two gaseous pollutants can be monitored simultaneously.

Keeping in mind about issue of elector at site, a rechargeable battery has been used with sufficient storage of power to operate the sampler for 8 hours at least. A charger is also provided with SSES-HS-001 to recharge the battery.

The same hardware can be used to sample a variety of pollutants including oxides of sulphur and nitrogen, halogens, ammonia, sulphides, etc. The particulate sampling head provided with the system is useful for monitoring particulates like silica, cement dust, metal fumes and asbestos fibers in work areas of cement plants, foundries, etc.

To ensure complete absorption and reduce loss of absorbing solutions by evaporation, the impinger tubes of the SSES-HS-001 are kept in an insulated ice tray.

Special Features:

- Battery operated pump runs for a full shift of 8 hrs.
- Rechargeable, Maintenance free Battery.
- Provision for the system to operate off the mains also.
- Calibration Certificate for each instrument shall be provided with instruments

## SPECIFICATIONS:

Suction Pump	:	Built-in Rotary vane type
Sampling Rate	:	0 to 3 LPM
Timer	:	3 digit display in minutes; Adjustable from 0 to 12 hrs.
Running Time	:	1 – 999 Min
Delay Time	:	1 – 99 Min
Power Supply	:	220V (+/-) 10V AC, 50Hz with Battery
Operation Time	:	10 hours with full charge, with sampling rate of 1 LPM
Charging Time	:	15 Hrs. or less
Sampling Time	:	Consisting of 2 Nos., 35 ml glass impingers kept in ice tray