

Personal Air Sampler

Portable / Handheld Model : PS - 101



Protects **Personnel, Plant & Assets**



TECHNOLOGY

HNL Personal air sampler with an appropriate sample head is designed to collect virtually any industrial contaminant including particulate samples like dust, fibres, fumes and mists as well as vapours and gases, where high flow rate is permitted.

Air containing contaminants is drawn through the sampling head at an optimum rate. The suction is provided by a pump driven by DC Motor with dry or Rechargeable batteries. Flow rate is variable by the user to suit the sampling techniques.

The pump unit has a wide flow range up to 0-3 (LPM) Litres Per Minute adjustable. The desired flow rate is pre-set and maintained constant within a tolerance of $\pm 5\%$. When pressure drop across the filter increases as contamination builds up, the control circuit automatically senses the rising current/demand by the motor voltage to compensate to maintain preset constant flow rate. Unit is powered by dry cell or a re-chargeable, which can be recharged in place via a socket or can be interchanged very rapidly to allow the instrument to continue sampling on consecutive shifts. A Low Battery Alarm is provided. Setting of Flow rate has been made simple for the user and is adjustable through membrane switch, over the entire range.

SPECIAL FEATURES

- Rotary pump with corrosion resistant vetted parts.
- Automatic Constant flow control.
- Multi flow sampling capability.
- Pulsation free flow.
- Built - in flow indicator optional.
- Ultra quiet operation.
- Electronic flow adjuster.
- Low battery alarm.

HEADS FOR GASES & VAPOURS

A simple method of collecting vapours is to absorb them in Silica Gel. We offer user fillable Silica Gel holders with end plugs. Vapours may subsequently be stripped off for chemical analysis. Alternatively bubbler type liquid traps may be used to absorb gases or vapours by suitable liquids.

HEADS FOR RESPIRABLE DUST

Special heads for separating respiration of the dust from larger, non-respirable particulate are available.

HNL Systems Pvt. Ltd.

Administrative & Sales Office: 25/N, Laxmi Industrial Estate, New Link Road, Andheri (W), Mumbai – 400 053, India. Tel : +91 22 4295 2180 / 81.

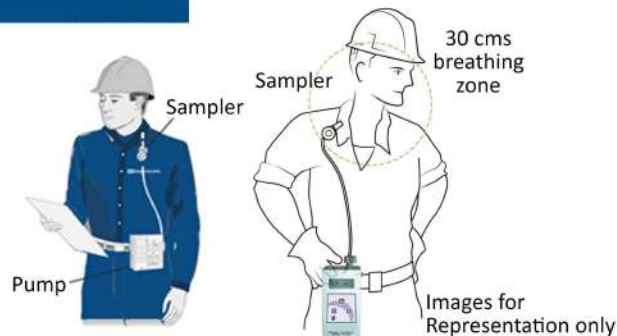
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SPECIFICATIONS

Features	Air sampling with time record, adjustable flow setting, auto controlled flow, resettable time, time elapsed indicator
Detectable gases / parameters	Air sample
Electronics / processor	Micro-controller
Power supply	Rechargeable battery with charger
Display	LCD
Alarm	LOW Flow and LOW battery alarm
Output	N/A
Sensor technology	Pump
Range resolution	Max flow up to 3.0 LPM
Operating temperature	0 - 55 °C
Sampling / input	Auto suction
Housing / case	MS
Included accessories	Leather carry case, 50 Nos filter paper
Optional accessories	Rota meter, sampling heads, filter, absorption tubes, gas collection bags
Applications	Sampling of Very low toxic gases, sampling dust and asbestos fibres
Industries	Forensic research labs, air pollution control labs, etc

SAMPLING HEADS & FILTERS

The sample heads used with high flow personal sampling pump fall under:

1. Filter heads and filter for retaining toxic or radio active dusts, fibres, fumes and mists.
2. Heads containing gel or liquid for retaining toxic vapours and gases.
3. Cyclone heads which separate dust in to respirable and non-respirable fractions.

FILTER HEADS & FILTERS

General and special purpose filters or various materials and dimensions along with suitable filter heads are available for collection, for example :

1. Particulate contaminants.
2. Asbestos fibres, radio active dusts, lead, total dust, man-made mineral fibres and welding fumes.

Note : Specifications and Features will vary with application. Due to HNL's commitment to research, design and product improvement, specifications are subject to change without notice.

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