

Particulate Sampler MicroPNS Type HVS1 for PM2.5, PM 10, PM1, TSP sampling



PM10 sampler



TSP sampler

Highlights

- Easy and safe change of filter
- 1 membranes diameter 150mm
or 8x10 inch
- Mass flow or real flow controlled
- Time or volume controlled sampling
- Non-volatile memory
- Real time clock
- 68m³/h or 30m³/h
- TSP, PM10, PM2.5 PM1 size
selective head
- Insulated outdoor housing or 19" indoor
version for rack mount
- Brushless blower, maintenance free

The microcomputer controlled air sampler, MicroPNS Type HVS1, is a system for the automatic collection of particles on filters.

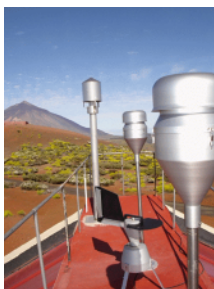
The modular system is furnished with an internal brushless blower for volume flow rates of up to 68m³/h.

Automatic collection of 1 membrane. Filter holder for 150mm diameter or rectangular filter 8x10 inch available.

Gas flows are regulated via mass flow controllers, which are controlled by the built-in microcomputer and electronic of MicroPNS. The system has an orifice plate and differential pressure measurement with temperature and pressure compensation.

Different sampling heads for PM10, PM 2,5, PM1 or TSP are offered as an accessory.

With the MicroPNS HVS1 you can preset a sampling for a variable volume during an unrestricted period of time or a sampling over a preset period with a constant gas flow. The internal microcomputer computes the physically correct volume and shows different status messages and the actual volume on a display. All parameters and all data are stored and can be output to the display, RS 232 or an optional USB stick or printer. The system is also available in an outdoor cabinet with robust powder coated steel housing. The brush-less blower guarantees long life time without maintenance.



MicroPNS HVS sampler for 19" rackmount version and sampling heads outside roof

Particulate Sampler MicroPNS HVS1

The MicroPNS particulate sampler guarantees an exact sampling in strict accordance with EN standards and can be employed in the area of emissions, immissions, testing for waste disposal sites, MAK value monitoring (maximum admissible concentration), as well as being applicable to many other industries and fields. The mechanical execution depends on the application. A variety of different sampling heads, in accordance to EN12341:2014 and others are available.

The system is available with, insulated outdoor housing, or as 19" Rack mount system for integration in existing monitoring stations.

Technical data

Sampling	independent, microcomputer controlled sampling on particulate filters, 1 sampling filter , 8x10" or 150mm diameter (please specify at order)
Sampling control	constant flow or constant volume
Flow controll	mass flow controlled, by differential pressure method
Accuracy of flow	< 1% FS
Flow range	up to 68m3/h
Power supply	230V/50Hz
Automatic Sequencer	unattended automatic operation; user enters time and date for beginning and stop, volume, and flow rate for each sampling event; If flow rate falls outside these limits, the sampling will stop and indicate that these sampling was not valid
Flow Limits	The user can set flow limits as a range of percent difference from the expected value
Data storage	all data are stored in a non-volatile memory
Mechanical	19" rack mounted or outdoor housing, painted steel
Outputs	RS 232, USB stick optional
Dimensions	400x600x1800mm (LxWxH) without probe
Weight	approx. 50 kg outdoor Approx 34 kg indoor