

Particulate Sampler MicroPNS Type HVS16 for PM2.5 or PM 10 sampling



MicroPNS LVS16
with outdoor housing and PM 2.5
sampling head according EN

Highlights

- Easy and safe change of filter
- Up to 16 membranes diameter 150mm
- Mass flow or real flow controlled
- Time or volume controlled sampling
- Non-volatile memory
- Real time clock
- 68m³/h or 30m³/h PM10 or PM2.5 size selective head
- Insulated outdoor housing
- Brushless blower, maintenance free

Description

The microcomputer controlled air sampler, MicroPNS Type HVS16, 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. Sequentially collection on up to 16 membranes with diameter 150mm without surveillance.

Gas flows are regulated by microcomputer. The differential pressure method is used for flow monitoring. Pressure and temperature measurement is incorporated. Different sampling heads for PM10, PM 2,5 or TSP are offered as an accessory. PM 10 and PM2.5 specifications are in accordance with EN 12341:2014.

Particulate Sampler MicroPNS HVS 16

With the MicroPNS HVS16 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. Depending on the setup of the unit, up to 16 membranes can be collected. The collection is performed sequentially and starts in each case on a preset date and time. 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, RS232, USB.

The system is available in an outdoor cabinet or as 19" version for mounting in a measuring station. Different options like additional sensors or alarm modul for sending an SMS in case of failure or remote start and stop of the system are available.



Particulate Sampler MicroPNS HVS16

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.

MicroPNS control unit with PM 10 sampling inlet for 68m³ /h cutpoint

Technical data

Sampling	independent, microcomputer controlled sampling on particulate filters, up to 16 sampling filters (sequentially) diameter 150mm
Sampling control	constant flow or constant volume
Flow control	mass flow controlled
Flow range	up to 68m ³ /h for PM10 , 30m ³ /h for PM 2.5 according EN12341 and 14709 as well as up to 78m ³ /h for other regulations
Power supply	230V/50Hz/60Hz
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	
Mechanical	19 rack mounted or outdoor housing,
Outputs	RS 232
Dimensions	600x600x1800mm (LxWxH)