

Particulate Sampler MicroPNS Type LVS16



MicroPNS LVS16
with outdoor housing and PM 10
sampling head according EN 12341

The microcomputer controlled air sampler, MicroPNS Type LVS16, is a system for the automatic collection of particles on filters.

The modular system is furnished with an internal pump for volume flow rates of up to 2,3m³/h.

Sequentially collection up to 16 membranes diam. 47mm or 50mm without surveillance.

Gas flow is regulated via mass flow controller, which is controlled by the built-in microcomputer and electronic of MicroPNS. On request is the system also available with orifice plate and differential pressure measurement with temperature and pressure compensation.

Different sampling heads for PM₁₀, PM_{2,5} or TSP are offered as an accessory.

Sampler specifications are in accordance with EN 12341.

- Up to 16 membranes diameter 47mm
- Microcomputer computes the physically correct volume
- Time or volume controlled sampling
- Real time clock
- Non-volatile memory

Particulate Sampler MicroPNS LVS 16

With the MicroPNS LVS16 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, RS 232 or an optional printer. The system is available in an aluminium outdoor cabinet or as 19" version for mounting in a measuring station.

Umwelttechnik MCZ GmbH
Dieselstraße 20a
61239 Ober-Mörlen
Tel: 0 60 02/ 1711
Fax: 0 60 02/ 17 13

Particulate Sampler MicroPNS LVS16



MicroPNS control unit

The MicroPNS particulate sampler guarantees an exact sampling in accordance with VDI and EN standards (Association of German Engineers) 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 EN 12341, filter racks, stream selectors outdoor housing are offered optionally.

Specifications

Sampling	independent, microcomputer controlled sampling on particulate filters,
Sample filters	up to 16 sampling filters (sequentially) diameter 47mm or 50mm
Sampling control	constant flow or constant volume
Flow controll	mass flow controlled or by orifice plate with temperature and pressure compensation
Sample Pump	rotary carbon vane pump 3m ³ /h
Flow range	up to 2,3m ³ /h
Power supply	230V/50Hz
Consumption	approx. 250VA
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, RAM
Mechanical	19" rack mounted or outdoor housing, powder coated aluminium with thermal insulation
Temperature control	Thermostat controlled heater and fan
Noise	< 35dBA according to DIN 2058 in a distance of 8m
Outputs	RS 232