



PAMAS SVSS
for low viscous fluids



PAMAS SVSS with Small Volume Kit
for small volumes of low viscosity samples



PAMAS SBSS
for high viscous fluids



PAMAS SBSS with small pressure container
for small volumes of high viscosity samples

PAMAS Pharma instruments Particle counters for pharmaceutical applications



PAMAS Pharma instruments

Application specific measuring instruments for laboratory particle counting



PAMAS SVSS

For the analysis of low viscous pharmaceutical infusion solutions, PAMAS offers the SVSS, a versatile, highly flexible particle counter. The height adjustable sample stage allows for the use of a wide variety of sample containers and is equipped with a magnetic stirrer to ensure the fluid remains homogenous. In a few simple steps the SVSS can be adapted for the measurement of the smallest sample volumes down to 100 µl. To avoid the critical and time-consuming decanting of samples, a special kit that enables samples to be taken directly out of infusion bags is also available as an option.



Accessories for infusion solutions

PAMAS SBSS

The measurement of particulate contamination in volatile and highly viscous fluids can be extremely challenging. When using a standard laser particle counter for pharmaceutical applications, air bubbles may be introduced during the sample analysis, which will lead to incorrect particle counts. The international pharmacopoeias (e.g. USP & Ph.Eur.) recommend analysing such samples via a microscope method, leading to an increase in workload, analysis time and operating costs. These issues need not arise by using the PAMAS SBSS. The pressurized sampling prevents the outgassing of volatile media and suppresses the formation of air bubbles within highly viscous fluids. Furthermore, samples can be degassed directly in the machine, if required, via a vacuum cycle during the analysis process.

PAMAS SBSS Small Volume

This version of the PAMAS SBSS has been developed for the analysis of the smallest sample volumes of highly viscous samples according to USP <787>. Thanks to a reduced pressure chamber size and an almost dead volume free sampling tube, 200 µl of sample is sufficient for a single measurement thus eradicating the need for pooling and diluting of samples.



PAMAS Small Volume Kit

Software PAMAS USP

The PAMAS USP software is available for convenient operation via PC or laptop. It is also used to evaluate and display the measurement results conforming to the respective standards and complies with the 21 CFR Part 11 regulations. The most common measurement methods as per Ph.Eur. 2.9.19, USP <787>, USP <788>, USP <789>, JP XVI, KP X, IP 2.5.8 and BP XIII are already pre-installed. In addition, any customer specific methods can be generated.



PAMAS USP Software

Specifications

- 16 or 32 freely adjustable size channels
- LC display with optional keypad
- Integrated thermoprinter (optional)
- Data transfer: ASCII code, RS-232-C interface
- Power supply: 100–240 V, 50–60 Hz

Volumetric sensors

PAMAS HCB-LD-50/50

Size range: 1–400 µm
Max. particle concentration: 24,000 p/ml* at 10 ml/min**

PAMAS HCB-LD-25/25

Size range: 1–200 µm
Max. particle concentration: 120,000 p/ml* at 10 ml/min**

Other sensors for larger particle sizes or higher concentrations are available on request.

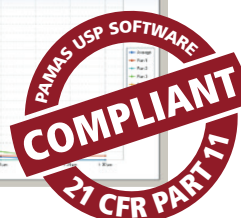
* Coincidence error of 7.8 %

** Other flow rates are available on request



Management System
ISO 9001:2015

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