

PAMAS SVSS

Particle counting system for low-viscous fluids

Laboratory particle counter for aqueous fluids with precise flow control for contamination monitoring, size distribution analysis and component cleanliness control in the following media:

- Parenterals according to common pharmacopoeias
- Water
- Suspensions
- Cleaning solvents



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Product features

- Customisable measurement settings
- 16 freely adjustable size channels (32 channels upon request)
- Integrated magnetic stirrer
- Use of any sample vessel
- Measuring volume of 100 µl to 1000 ml
- Automatic sample flow and volume control via a stepper motor driven syringe module
- Interchangeable syringes with 1 ml, 10 ml and 25 ml volume

Accurate single particle counting technique

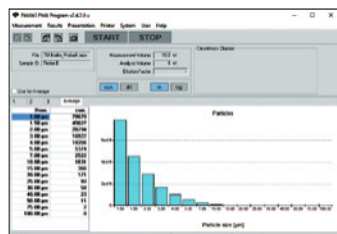
The volumetric sensor cell and sophisticated optical components guarantee high resolution and accuracy. Every particle passing through the sensor is detected. This design ensures the true measurement of the fluid sample including ultra clean fluids.

Calibration

The system is calibrated according to international standards including ISO 21501-2, ISO 21501-3 or USP <1788>. These calibrations are traceable to NIST standards.

Software PAMAS PMA

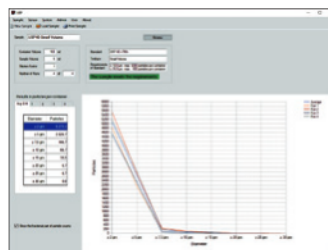
- User-friendly setting of the measuring parameters
- Report and analysis of measuring results
- Printout of measuring results including all sample parameters in numerical and graphical presentation



User interface of PAMAS PMA software

Software PAMAS USP

- Straightforward selection of default measurement methods according to pharmacopoeias
- Easy setting of customer specific measurement methods
- Automatic evaluation of measurement results according to defined criteria (pass/fail)
- Software fulfils requirements of 21 CFR Part 11
- Electronic assessment and approval of measurement results



User interface of PAMAS USP software

Reporting of measurement results

according to the following standards: USP <787>, USP <788>, USP <789>, Ph.Eur. 2.9.19, BP XIII, JP XVI, KP X, IP 2.5.8 as well as raw data

Options

- Small Volume Kit for sample volumes down to 100 µl
- Kit for direct sampling out of infusion bags and bottles

Specifications

- 16 or 32 freely adjustable size channels
- LC display with 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

Available size ranges:
1–200 µm (ISO 21501-3)
1–400 µm (ISO 21501-3)
option on request
Max. particle concentration:
24,000 p/ml* at 10 ml/min**

PAMAS HCB-LD-25/25

Available size ranges:
1–200 µm (ISO 21501-3)
Max. particle concentration:
120,000 p/ml* at 10 ml/min**

PAMAS SLS-25/25

Available size ranges:
0.5–20 µm (ISO 21501-2)
Max. particle concentration:
13,000 p/ml* at 10 ml/min**

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

Size

400 mm x 450 mm x 280 mm
(W x H x D)

Weight

18 kg

- * Coincidence error of 7.8 %
- ** Other flow rates are available on request



Management System
ISO 9001:2015

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