

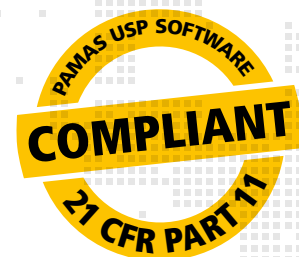


## **PAMAS SVSS**

# **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



# PAMAS SVSS

## Particle counting system for low-viscous fluids



### 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 the sensor is detected. This design configuration ensures the true measurement of even 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

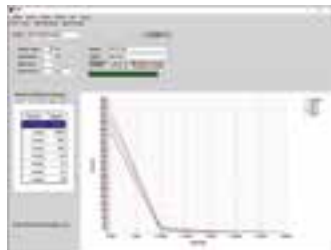
- User-friendly setting of the measuring parameters
- Report and analysis of measuring results
- Printout of measuring results including all sample parameters in numerical and graphical presentation



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
- 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: 1-200 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\*\*

#### PAMAS SLS-25/25

Size range: 0.5-20 µm  
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 280 mm x 450 mm (W x D x H)

### Weight

18 kg

- \* Coincidence error of 7.8%
- \*\* Various flow-rates can be selected.



Management System  
ISO 9001:2015

www.tuv.com  
ID 9105038017

**PAMAS HEAD OFFICE** Dieselstraße 10, D-71277 Rutesheim, Phone: +49 7152 99 63 0, Fax: +49 7152 99 63-32, Email: info@pamas.de

**PAMAS USA** 1408 South Denver Avenue, Tulsa, OK 74119 USA, Phone: +1 918 743 6762, Fax: +1 918 743 6917, Email: clay.biolo@pamas.de

**PAMAS BENELUX** Mechelen Campus, Schaliënhoedreef 20T, B-2800 Mechelen, Phone: +32 15 28 20 10, Mobile: +32 477 42 48 62, Email: paul.pollmann@pamas.de

**PAMAS FRANCE** Route du Tailleur 210/136, F-40170 Saint-Julien-en-Born, Mobile +33 6 25 33 20 41, Email: eric.colon@pamas.fr

**PAMAS LATIN AMERICA** Curitiba-Paraná, Brazil, Phone/Fax: +55 41 3022 5445, Mobile: +55 41 999 72 21 73, Email: marcelo.aiub@pamas.de

**PAMAS INDIA** No. 203, I floor, Oxford House, #15 Rustam Bagh Main Road, Bangalore 560017, India, Phone: +91 80 41 15 00 39, Email: info@pamas.in

**PAMAS HISPANIA** Calle Zubilleta No. 13 1ºB, ES-48991 Algorta, Mobile: +34 67 75 39 699, Email: julian.malaina@pamas.de

**PAMAS UK** Sci-Tech Daresbury, Keckwick Lane, Daresbury, Cheshire WA4 4FS, Mobile: +44 79 17 71 33 66, Email: graeme.oakes@pamas.de

Please visit our website at [www.pamas.de](http://www.pamas.de)