



PAMAS S70

Particle counting system for low-viscous fluids

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

- Parenterals and ophthalmic solutions according to common pharmacopoeian test methods
- Water
- Cleaning solvents



PAMAS S70

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Product features

- Simple and intuitive system operation via 12" touch screen
- No external hardware required
- Flexible measurement settings
- Profile and method concept
- Long-term archiving and automated backups
- Easy export of measurement data and reports via USB stick or network
- Ultra-high resolution with 4,096 size channels
- Integrated magnetic stirrer
- Integrated clean box with HEPA filter
- Use of any sample vessels
- 100 µl to 1,000 ml measurement volume
- Automatic sample flow and volume control via a stepper motor driven syringe module
- Interchangeable syringes with 1, 10 and 25 ml volume

Accurate single particle counting technique

The volumetric sensor cell and advanced 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.

Integrated computer with its own operating system

The PAMAS S70 is equipped with its own 21 CFR Part 11 compliant operating system and is conveniently controlled via the integrated touch screen. This removes the need for external hardware but, is still possible if required. The screen can be mirrored on to a PC/Laptop. Various input devices can be used via USB. The PAMAS S70 can be integrated into an existing network via the Ethernet connection, e.g., to transfer measurement data, backups or print reports via a network printer.



User Interface

Versions

- **PAMAS S70 Water**
Standard version for aqueous liquids
- **PAMAS S70 Pharma**
For pharmaceutical applications
For pharmaceutical applications. Equipped with an integrated HEPA filter to ensure a clean atmosphere for analysis. The HEPA filter is conveniently located on the back of the instrument turning the PAMAS S70 into a stand-alone clean environment, removing the need to place the system in a laminar flow cabinet.

Reporting of measurement results

according to the following pharmacopoeian test methods:

USP <787>, USP <788>, USP <789>, Ph.Eur. 2.9.19, Ph.Eur. 2.9.53, BP XIII, JP 6.0.7, KP XII, IP 2.5.9, IP 2.2.32 as well as raw data.

Customer specific measurement methods can easily be created.

Options

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



Small volume kit



Direct sampling out of infusion bag

Specifications

- 4096 freely selectable size channels
- Integrated PC with touch screen
- Integrated Clean-Box with HEPA-Filter
- Datatransfer: USB A, Ethernet
- 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

2–50 µm (USP 1788)
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)
2–50 µm (USP 1788)
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**

Size

470 mm x 580 mm x 420 mm
(W x H x D)

Weight

25 kg

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



Management System
ISO 9001:2015

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