



PAMAS FSA-2002 **Floc Size Analyser for** **particle counting and coagulation**

Mobile particle analysis of floc sizes for the use in coagulation and water treatment

Applications:

- Floc size analysis in coagulation and water treatment
- Also for use with the analysis of low viscous fluids including raw water, waste water, filtered water, process water and organic and corrosive liquids

Product features:

- Definition: Floc Size Analyser
- Best for: Mobile particulate analysis of floc sizes
- Main function: Control of floc size in coagulation basins
- Report of measuring results: numerical and graphical display of cumulative or differential particle counts

PAMAS FSA-2002

Mobile particle measuring instrument for floc sizes



The **PAMAS FSA-2002** Floc Size Analyser has been designed for coagulation and water treating systems. Water is often treated by adding flocculents. These flocculation agents are used to gather solid undissolved contaminants to particulate agglomerates. Before the process of filtration commences, the floc size and quantity is analysed using the **PAMAS FSA-2002**. Precise information about the particle size helps to verify and to determine if the process of coagulation is complete or if further flocculation agents must be added.

The **PAMAS FSA-2002** consists of the particle counter PAMAS 3116, the particle sensor PAMAS HCB-LD-900, a pump, an analysing system and a chassis enabling the mobile use on site and at different measuring points.

Single particle counting system using volumetric sensor cells

A highly sophisticated sensor cell and optics guarantees the best resolution and accuracy even under high pressure conditions. Particle counting can be achieved using many methods, but only the use of volumetric cells, like

those used in PAMAS sensors, can guarantee that all particles passing through the sensor are counted. This results in clearer true statistical analysis and prevents the loss of information compared to in-situ cells that only detect a small area of the sample flow path.

Sensor calibration

The light extinction sensor PAMAS HCB-LD-900, which is integrated in the **PAMAS FSA-2002**, is calibrated with mono-disperse latex spheres according to ISO 21501.

Technical data

Particle Counter:

- Free adjustable 8 or 16 channel D/A-converter system
- Backlit graphical LC-display with 320 x 240 pixel resolution
- Integrated 32-column-thermoprinter
- Data transfer: 8 bit ASCII code through RS 232 port
- Power supply via alternating current: 100 V, 115 V, 220 V, 230 V, 50-60 Hz AC

Volumetric particle sensor:

PAMAS HCB-LD-900

- Size range: 30 – 8000 µm as per calibration standard ISO 21501
 - Maximum particle concentration: 10 P/ml* at a flow rate of 500 ml/min**
- * Coincidence error of 7.8%.
** Various flow rates are available.



Integrated in the Floc Size Analyser PAMAS FSA-2002 are the particle counter PAMAS 3116 and the light extinction sensor PAMAS HCB-LD-900. Advanced PAMAS sensor technology guarantees highest measuring accuracy and statistical reproducibility of the measuring results.

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