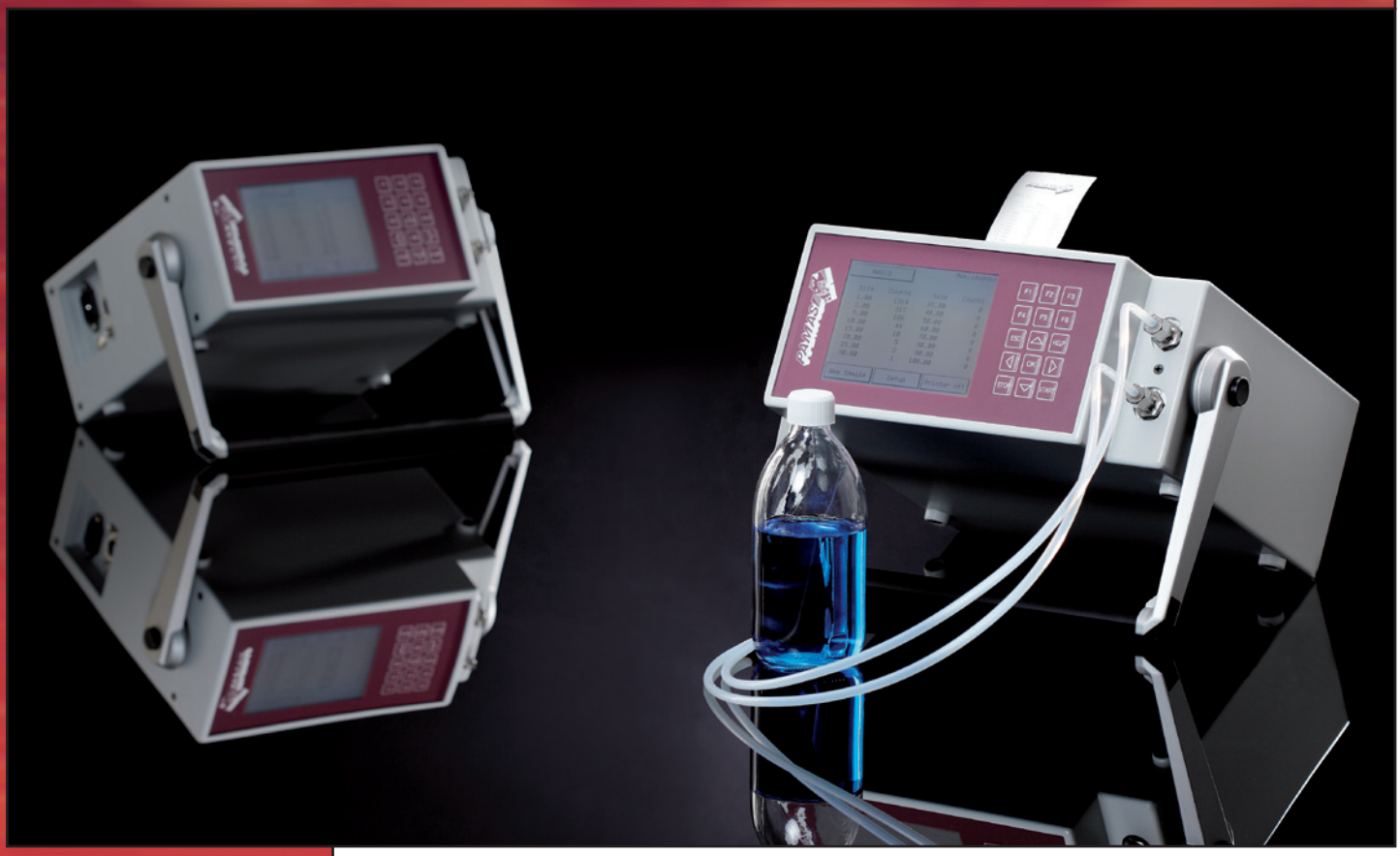
PAMAS
Partikelmess- und Analysesysteme

PAMAS S4031
Portable Particle Counting System for Liquids



PAMAS S4031

Mobile and compact measuring instrument for raw water, waste water and potable water, for organic and corrosive liquids, for filter test rigs and for component cleanliness control

User-friendly operation using touch screen with graphic display

- The volumetric cell design of PAMAS sensors guarantees the highest accuracy, resolution and best statistical information
- Real portability with lab system accuracy
- Users can configure the system to their needs in profiles
- Pressurised sensor avoids formation of bubbles
- Highest repeatability and reproducibility
- Compact analysing system for liquids: raw water, waste water and potable water, organic and corrosive fluids
- Parts cleaning according to ISO 16232-9 and VDA-19
- Instrument can be used for batch and online sampling
- Sensor calibration with latex spheres according to ISO 21501
- Data storage of more than 4000 measurements

PAMAS S4031

Portable particle counter with flexible software for various applications

PAMAS introduces a new development in general liquid monitoring. The **PAMAS S4031** particle counter is a portable self-contained instrument capable of analysing and reporting liquid contamination. The **PAMAS S4031** can be used for batch and online sampling.

Where instant results are essential the **PAMAS S4031** counter is the logical answer. Including our tried and tested high quality laser based sensor system, repeatable accurate results are produced quickly and easily.

With a simple-to-use touch screen user interface operation is easy and intuitive.

For higher concentration contamination measurements the instrument can be configured to measure up to 200,000 particles per ml.

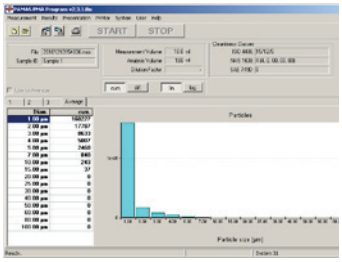
The unit has an integrated protection from contamination including a back flush operation to remove the contaminants from the system.

With 32 free adjustable size channels the system has the flexibility to match the most demanding applications.

The measuring results are reported according to common standards, including NAS 1638, SAE AS 4059 and ISO 4406.

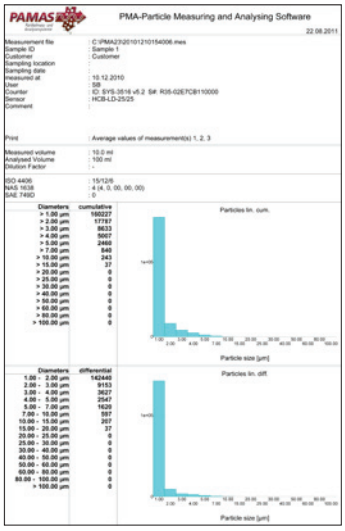
User-friendly download software for transfer of stored measurement data to a PC as a basic feature. Data files are compatible with most spreadsheet software.

Remote control with software PAMAS PMA



The population histogram shows cumulative and differential particle counts.

Automatic storage and documentation in readable format. Classification of particle number and size within the sensor's size range.



Complete documentation showing measuring results in absolute and relative numbers

TÜVRheinland® CERT ISO 9001

Trend Monitoring with software PAMAS ATS

- Graphical display of particle count over time.
- Population histogram and particle counts of a single, selectable measurement.
- Trend analysis of particle counts in adjustable sizes within the sensor's size range.
- Display of the values of extern 4-20 mA input(s).
- Printout of the trend analysis and the numerical and graphical results of a single measurement.

Graphical display of particle count over time.

Technical data

Sampling system:

- Wear resistant ceramic piston pump with controlled constant flow.

Particle Counter:

- 32-bit high performance CPU with sophisticated programmable digital domain signal conditioning and 4096 internal channels
- Data printout: 32 column thermo printer
- Data transfer: 8 bit ASCII code through USB port (57600 baud)
- Power supply: 90-230 V AC / 50-60 Hz or 12-30 V DC or via integrated battery for up to 3 hours operation
- Weight and Size: Approx. 9 kg 300mm x 140mm x 300mm

Volumetric sensors:

- **PAMAS HCB-LD-50/50**
  Size range: 1 – 200µm
  (1 – 400µm: option on request)
  Max. particle concentration:
  24,000 p/ml* at 25 ml/min**
- **PAMAS HCB-LD-25/25**
  Size range: 1 – 200 µm
  Max. particle concentration:
  120,000 p/ml* at 10 ml/min**
- **PAMAS HCB-LD-15/25**
  Size range: 1 – 100 µm
  Max. particle concentration:
  200,000 p/ml* at 10 ml/min**

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

* Coincidence error less than 7.8%.
** Various flow-rates are available.

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