



PAMAS SBSS WG

Particle counting system for water glycol based hydraulic liquids

Laboratory particle counter with external pressure supply and precise flow rate control for numerous fluids including:

- MacDermid Oceanic HW 540
- MacDermid Oceanic HW 443
- MacDermid Oceanic HW 443 R
- MacDermid Pelagic 100
- Castrol Transaqua
- Houghton Aqualink 300F
- Houghton Aqualink 325F
- Houghton Aqualink HT-804F
- Water and chemicals for injection



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Product features

- Customisable measurement settings
- 16 freely adjustable size channels (32 channels upon request)
- Pressure sampling up to 10 bar
- Optional vacuum cycle for sample degassing
- Integrated magnetic stirrer
- Use of any sample vessel with a max. diameter of 7 cm and a height of 18 cm
- Measuring volume of 1 to 1,000 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.

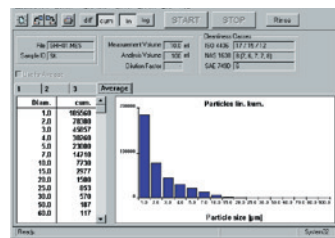
Calibration

The system is calibrated according to the international standards including ISO 11171 or ISO 21501-3. These calibrations are traceable to NIST standards. Historical calibrations including ISO 4402 are still available on request.

Software

PAMAS PMA

- User-friendly setting of the measuring parameters
- Report and analysis of measuring results
- Measurement report including cleanliness codes and sample parameters in numerical and graphical presentation
- LIMS integration possible



User interface of PAMAS PMA software

Reporting of measurement results

according to the following standards: ISO 4406, SAE AS4059, NAS 1638, GOST 17216, NAVAIR 01-1A-17, GJB 420B, SAE 749D, CHARN, ISO 11218.2 as well as raw data.

Versions

- **PAMAS SBSS WG** for water glycol based hydraulic fluids and fresh water
- **PAMAS SBSS WG Seawater** for water glycol based hydraulic fluids, fresh water, and seawater
- **PAMAS SBSS WG Corrosive** for water glycol based hydraulic fluids, fresh water, seawater, and chemicals



External pump with filter and air dryer unit for pressure and vacuum

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
1–100 µm (ISO 4402)
4–70 µm(c) (ISO 11171)
Max. particle concentration:
24,000 P/ml* at 25 ml/min**

PAMAS HCB-LD-25/25

Available size ranges:
1–200 µm (ISO 21501–3)
1–100 µm (ISO 4402)
4–70 µm(c) (ISO 11171)
Max. particle concentration:
120,000 P/ml* at 25 ml/min**

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

Size

400 mm x 600 mm x 280 mm
(W x H x D)

Weight

30 kg

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



Management System
ISO 9001:2015

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