



## **PAMAS OLS50P**

# Compact online particle counter with constant flow rate

### **PAMAS OLS50P**

## Automatic Particle Counter for online measurement and for long-term condition monitoring

#### **Applications:**

- Online measurement of hydraulic liquids up to 6 bar
- Cleanliness control of lubricants
- Condition Monitoring of operating fluids
- Monitoring Facility Systems in Aviation Industry
- Test Rigs for Component Cleanliness

#### **Volumetric measuring cell:**

The volumetric cell design of PAMAS sensors guarantees highest accuracy and reproducibility. Every single particle of the sample volume is analysed on its way through the measuring cell.

#### **Resolution:**

Particle measurement in eight size channels

# PAMAS OLS50P

## Long-term contamination analysis and fluid condition monitoring



The **PAMAS OLS50P** online particle counter controls the cleanliness of operating liquids (e.g. hydraulic or lubricating oil) and of water (e.g. rinsing water in parts cleaning systems).

The compact online particle counter **PAMAS OLS50P** has been developed to be installed in to almost every system and offers a variety of interfaces for both analogue and digital data transfer. All types of light extinction sensors of the PAMAS HCB-LD series can be integrated in the **PAMAS OLS50P**. If required, the sensor can be built of resistant material so that it can be used for the analysis of all types of liquids and critical fluids, from water down to strong acid.

The integrated wear resistant ceramic piston pump guarantees a constant flow rate of 10 or 25 ml/min at a pressure range from 0 to 6 bar.

With its eight different size channels, the particle counter **PAMAS OLS50P** counts particles in eight size classes.

### Particle sensor

The instrument is equipped with the light extinction sensor **PAMAS HCB-LD-50/50** with a nominal flow rate of 10 or 25 ml/min per minute and a maximum particle concentration of 24.000 particles per ml at a coincidence rate of 7.8%. Particle sensors with a higher flow rate and a higher maximum concentration are available on request.

### Calibration

The Automatic Particle Counter is calibrated according to International Calibration Standards.

### Software

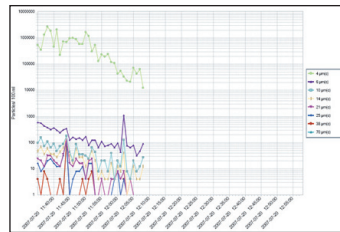
The **PAMAS OLS50P** online particle counter can be operated with two optional software programmes:

- PAMAS POV software (PAMAS Online Visualization)
- PAMAS PCT software (PAMAS Component Test)

With the help of the software, the measuring results are reported according to common cleanliness standards (e.g. ISO 4406 or SAE AS 4059). The measuring parameters may be programmed individually according to operator needs.

### PAMAS POV software

The measuring operation can be started and stopped with the PAMAS POV software (PAMAS Online Visualization). The measuring results are displayed on charts and schedules and can be printed and exported.



*Cumulative and differential counts reported in numerical tables or in illustrative graphs*

The software simultaneously controls several sample points.

### PAMAS PCT software

The PAMAS PCT software (PAMAS Component Test) enables online cleanliness tests of manufactured components in machinery engineering applications (test rigs).

The particulate contamination is reported numerically or shown on a graph via single measurement results or via arithmetic means of successive measurements. The PAMAS PCT software automatically stores measuring data and parameter.

### Technical Data

#### Particle counter:

Particle measurement in eight size channels

#### Pressure range:

0 - 6 bar

#### Data transmission:

- RS 485 interface
- analogue 4-20 mA interface. Parallel data transmission for four size channels or serial data transmission for all eight size channels.

#### Volumetric sensor:

##### PAMAS HCB-LD-50/50

Calibration range:

4-70 µm(c) according to ISO 11171

1-200 µm according to ISO 21501

Maximum

particle concentration: 24,000 p/ml at a coincidence rate of 7.8%.

##### PAMAS SLS-25/25

Calibration range:

1,5-25 µm(c) according to ISO 11171

0,5-20 µm according to ISO 21501

Maximum particle concentration:

13,000 P/ml at a coincidence rate of 7.8%

#### Size:

330 x 230 x 120 mm

#### Case protection:

IP 64



Management System  
ISO 9001:2008

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, E-Mail: info@pamas.de

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

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

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

**PAMAS LATIN AMERICA**, Curitiba-Paraná, Brazil, Phone/Fax: +55 41 3022 5445, Mobile: +55 41 999 72 21 73, E-Mail: 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, E-Mail: info@pamas.in

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

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

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