PAMAS
Partikelmess- und Analysesysteme

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

REV 04/2019

IN THE WORLD OF PARTICLES PAMAS COUNTS

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.

PAMAS OLS50P for Phosphate-Ester:
For Phosphate-Ester based hydraulic liquids (e.g. aviation hydraulic fluids), the PAMAS OLS50P is manufactured with a special stainless steel shell that protects the housing from corrosive liquids.

PAMAS OLS50P in stainless steel shell

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.

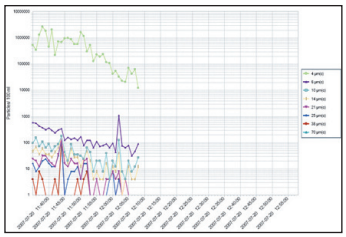
Calibration
The Automatic Particle Counter is calibrated according to International Calibration Standards.

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

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