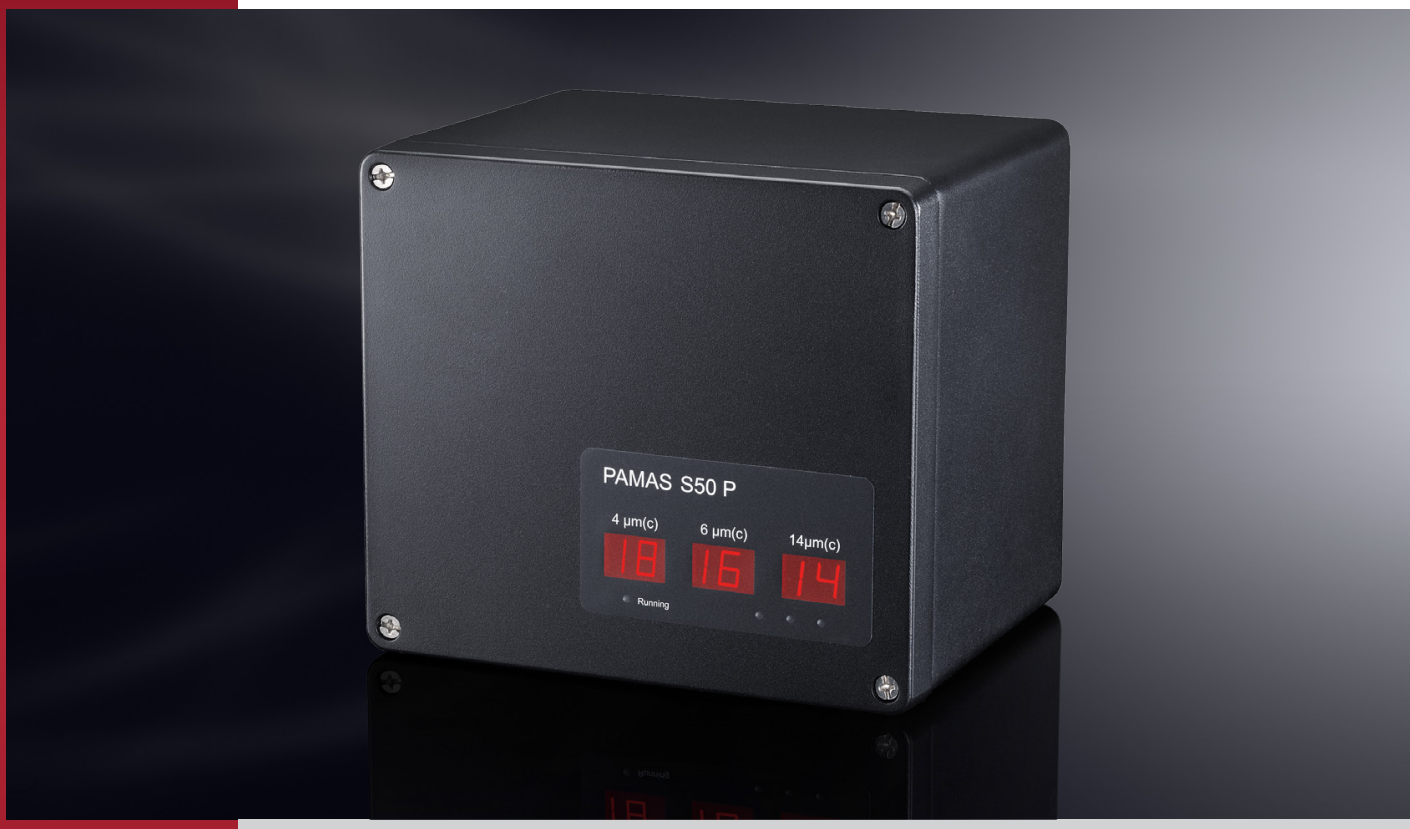
PAMAS
Partikelmess- und Analysesysteme



PAMAS S50P AVTUR
Online Particle Counter for Aviation Turbine Fuel

Contamination Control and Condition Monitoring of Aviation Turbine Fuel

- cost effective, high performance laser based online particle counting system with eight size channels
- flexible integration into monitoring facilities for Aviation Turbine Fuel
- LED display showing the contamination class code according to ISO 4406 in the size classes > 4 µm(c), > 6 µm(c) and > 14 µm(c)
- The volumetric cell design of PAMAS sensors measures 100% of the sample flow and guarantees highest accuracy and reproducibility.
- The particle number and size distribution of all 8 size channels is reported in real time to PC or PLC (programmable logic controller). The optional analysing software saves the measuring results and shows them in tables and graphs. This makes trends and events easily visible.
- Due to its measuring accuracy and its trend monitoring feature, PAMAS S50P AVTUR reduces the risk of failures and ensure the reliability of the controlled operating system.

IN THE WORLD OF PARTICLES PAMAS COUNTS

PAMAS S50P AVTUR

Stationary online particle counter for Aviation Turbine Fuel

The **PAMAS S50P AVTUR** measures the cleanliness of Aviation Turbine Fuel. Its rugged construction makes it resistant against mechanical, environmental and electrical threats.

Early alert in case of contamination:
Beginning failures in Aviation Turbine Fuel systems (e.g. corrosion) result in the early appearance of big particles. Due to its eight size channels,the online particle counter **PAMAS S50P AVTUR** is able to detect bigger particles. Instantaneous alert prevents the filling of contaminated Aviation Turbine Fuel into the tank.

Software:
After measurement, the measuring results can be analysed with the software PAMAS POV (PAMAS Online Visualisation) for Contamination Control and long-term Condition Monitoring.

Pressurised sampling:
The **PAMAS S50P AVTUR** is equipped with a wear resistant ceramic piston pump controlling the flow rate to 25 ml/min at a pressure range from 0 to 6 bar.

Size µm (c)	Particles / 100 ml
> 4	29497
> 6	7090
> 10	2393
> 14	960
> 21	383
> 25	190
> 38	133
> 70	12

More than just providing the triple code according to ISO 4406, PAMAS S50P AVTUR measures the particle number in eight different size channels and early alerts in case of failures caused by bigger particle sizes (e.g. corrosion).

Technical data:

Counter:
Particle measurement in eight size channels:
> 4 µm(c), > 6 µm(c),
> 10 µm(c), > 14 µm(c),
> 21 µm(c), > 25 µm(c),
> 38 µm(c) and > 70 µm(c)

Pressure range:
- with additional pump: 0 - 6 bar

Data transfer:
- standard equipment: RS 485 interface
- optional equipment: analogue 4-20 mA interface. Parallel data transmission for the size channels 4, 6, 14 and 70 µm(c) or serial data transmission for all eight size channels.

Volumetric sensor:
PAMAS HX
Calibration range:
4-70 µm(c) according to ISO 11171

Maximum particle concentration: 24,000 p/ml at a flow rate of 25 ml/min and a coincidence rate of 7.8%. The sensor measures triple codes from 0/0/0 to 22/22/22 according to ISO 4406.

Size:
- with additional pump: 230 mm x 200 mm x 180 mm

Weight:
- with additional pump: 5,0 kg

Case protection:
IP 64

TÜVRheinland ZERTIFIZIERT
Management System ISO 9001:2015
www.tuv.com ID 9105038017

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