

PAMAS PCT Software for online measurement of components

Programme for the cleanliness control of components

Application:

Software for the cleanliness control of components whose operating fluid is analysed with the online particle counters PAMAS S50, PAMAS S50P Fuel and PAMAS OLS50P

Software features:

- Definition: PAMAS Component Test
- For the use of the online particle counters PAMAS S50, PAMAS S50P Fuel and PAMAS OLS50P
- Main function: Software for component cleanliness control

- Output of measuring results: numerical and graphical report of cumulative particle counts in compliance with the cleanliness standards ISO 4406 and SAE AS 4059
- Additional function: alarm according to predetermined threshold settings
- Operating system: compatible to Microsoft Windows[®] 10 and 11



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IN THE WORLD OF PARTICLES PAMAS COUNTS

PAMAS PCT Software for contamination analysis of components



The software **PAMAS PCT** is used in test rigs to monitor the cleanliness of components. These include for instance hydraulic systems whose hoses are flushed with a cleaning fluid. The software **PAMAS PCT** is used in combination with the online particle counters PAMAS S50 and PAMAS S50P. With the help of this method, it can be tested whether the analysed component is clean and ready for use or if the flushing eventually needs to be repeated.

Before measurement, the user defines the component (e.g. with the serial number) and optionally sets the cleanliness limits which shall be achieved. The measuring results are displayed in a table and a chart. As soon as the defined cleanliness limits are achieved, the monitor shows a visual signal. The results can be printed and exported. Historical measuring results of formerly analysed components can also be reloaded, printed and exported.

Unlike the trend analysing software PAMAS POV, the software **PAMAS PCT** is able to analyse several components consecutively. The programme does not focus on condition monitoring over a longer period of time, but on the cleanliness control of components.



Management System ISO 9001:2015

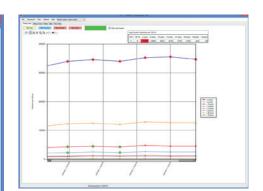
www.tuv.com ID 9105038017

You can define a min (Counts per analysis If the last particle cou	volume.) nts are b	elow/above these	values,	ОК
they are marked in g Curve	Raise Aam	but only if the che Minimum Value	kbox is activate	di Cano
ISO 4 µm(c)				
ISO 6 µm(c)			18	
ISO 14 µm(c)		10	16	
SAE Code cpc 4 µm(c)		7	10	
SAE Code cpc 6 µm(c)				
SAE Code cpc 14 µm(c)				
SAE Code cpc 21 µm(c)				
SAE Code opc 38 µm(c)				
SAE Code cpc 70 µm(c)				
SAE Class cpc				
> 4 µm(c)		275000	280000	
> 6 µm(c)				
> 10 µm(c)		45000	50000	
> 14 µm(c)		25000		
> 21 µm(c)			17000	
> 25 µm(c)				
> 38 µm(c)				
> 70 µm(c)				

To set up the alarm function, a minimum and maximum value is defined for each individual size channel. If a measurement value is below the minimum (above the maximum), the according section in the chart is coloured in green (red). The alarm is raised only for previously determined threshold values.

Particle numbers / 100 ml	Inear
ISO-Codes	logarithmic
SAE-Codes	✓ automatic scaling
SAE-Code short	Minimum 0
	Maximum 0
Time Interval	
Show the last	
© minute	Average calculation
o hour	Use average calculation
🗇 day	summarizing every
	3 _ measurements.

The display of measuring results can be pre-configured according to user-specific needs. Four parameters can be set up: Cleanliness class code, Time Interval, Scaling of the Y-axis, Average calculation.



In the chart, measurement values that are below the pre-defined minimum limit are coloured in green. Red coloured measurement values are above the pre-defined maximum limit. The button "Stop Save" allows to interrupt the measurement and to export the results into a previously selected data file.

*	Default Component Values	- 0	×
Model:	Model number		
Serial Number:	serial number		
Operator:	RP		
Comment	My very first comment	^	
		~	
Analysis Volume:	100 ml Limits		
Counter:	S50		Q
Serial Port	COM4		Q
	Clear Save	(Jose

The "Options" menu allows to define default component values, so e.g. serial number, name of operator, analysis volume or cleanliness limits do not need to be re-entered all the time. When a new file is created, the entries are already completed with the default component values. In case needed, the values can then be overwritten in the new file for the individual measurement.