

## **Description:**

The MPC 4614 is an optical particle counter and it is used for the detection of solid contamination in hydraulic and lubricating systems.

It's working principle is based on the light extinction effect. Together with the fluid flow, particles are passing a miniature photo sensor and interrupting the light beam. They generate a shadow.

The size of the shadow area determines the particle size and the number of shadowing effects defines the number of particles.

The sensor detects particles whose equivalent diameters are equal or larger than 4µm. The sensor flow is created by means of a flow regulation device. A single measurement takes one minute. The progress of the measuring sequence is indicated by a backward moving timer in the double-spaced LC - display.

*The amount of contamination for particle sizes 4µm(c), 6µm(c), 14µm(c) and 21µm(c) is calculated according to the cumulative classifications of ISO4406 and AS4059.* 

During the measurements the results may given out on a printer.

Independent from the way of measurement output (on display or printer) the results are saved in a data memory inside the particle counter (data logging function).

After terminating of all measurements the results may printed out or transmitted to a personal computer.

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## *Mobile Particle Counter MPC 4614*



Technical Data:			
Measurement:	<i>Optical particle counter wi sensor flow regulation</i>	ith integrated	
Measuring principle:	<i>Light extinction technology, for particles larger than 4 µm(c) equivalent diameter</i>		
Particle concentration	<b>: 40.000 particles/ml max.</b>		
Measuring results:	as per ISO4406 and AS4059 for particles >4 μm(c), 6 μm(c), 14 μm(c) and 21μm(c).		
Display:	<i>LCD with background illun 2 x 16 characters</i>	<b>nination</b> ,	
Operating elements	On/off switch, two menu b the classification mode	outtons for swit	t <i>ching</i>
Printer and data interface:	<b>RS 232 C</b>		
Data memory:	non-volatile, sufficient for a	approx. 30 hrs	•
Real time clock:	<i>detection of date and time at starting point of measurement</i>		
Auxiliary power:	Integrated rechargeable battery for approx. 15 hrs measuring time		
Battery charger:	230V, 50Hz / 12V, 600 m	A	
Calibration:	Secondary calibration with test oil		
Accuracy :	± 0,5 codes	STERQUALITA	do.

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**Technical modifications reserved** 

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## Hydraulic data:

## **Ordering information:**



233\*121\*approx. 300 (B\*H\*T) in mm

Subsequent calibration with test oil