



Measurement technology:	optical particle counter with flow rate - conditioning unit
Measurement procedure:	light blockade principle
Sensor:	optical sensor for particle bigger than 6 µm equivalent diameter max. particle concentration 40.000 particles / ml measurement duration 1 minute rinse duration 2 minutes
Calibration:	the device is calibrated by reference measurements with test oil in which is suspended ISO MTD
Operating facts:	max. 315 bar operating pressure min. 10 bar operating pressure (by less than 10 bar with a pump that increases the pressure) measurement flow rate 0,1 l / minute
Fluid temperature range:	5 - 70 degrees Celsius
Ambient temperature range:	5 - 40 degrees Celsius
Viscosity range:	10 - 200 cSt
Fluid compatibility:	hydraulic- and lubricating oil - fluid on the basis of mineral oil
Display:	LCD - Display, 2 lines with 16 digits per line and background illumination
Output (Display, RS 232 C):	ISO 4406 6 µm (c) classes 8 -22 and 14 µm (c) classes 8 - 22 (Display and print out) NAS 1638 classes 3 -14 (Display)
IP class:	IP 54
Relative humidity:	≤ 80 %, not condensing
Battery charger:	230V, 50 Hz / 12 V, 600 mA
Weight:	5 Kg
Dimensions:	width 245 mm, depth 310 mm, height 100 mm (particle counter)
Hydraulic connectors:	high-pressure measurement hose (length 2 m) with measurement clamp M16 x 2, low-pressure measurement hose (8 x 1 mm, length 2 m, PU-hose)
Package:	suitcase out of plastic with foam filling
Optional equipment:	RS 232c - interface (for printer or data logger) printer, data logger, pump to increase the pressure

CE - conformity is given.

The rights for technical changes are reserved.



data logger printer case-set software auxiliary pump



OLAER (Schweiz) AG

Bonnstrasse 3, 3186 Düringen

Tel. 026 492 70 00 - Fax 026 492 70 70 e-mail: info@olaer.ch - <http://www.olaer.ch>

The particle counter

Schako II

that concentrates on the essential.



9+1 good reasons

are standing for this measurement system.

- Compact design, battery-operated
- Exact measurement procedure (light blockade principle)
- Easy handling (three switches only, simple display)
- Lightweight and everywhere usable, high protection class
- Easy to learn, clear measurement results
- Independent and direct check of the liquid-condition
- Maintenance service of fluids, only if necessary
- Oil-change, only if necessary
- Savings on time, man power and general costs
- Reasonable purchase price

Schako II

Measurement can be so simple.

Connect - Rinse - Start

The measurement system

The complete measurement system (particle counter, conditioning unit, measurement hoses, dredging pump and battery charger) is packed in a suitcase out of plastic with foam filling to secure a safe transportation and storage of the system. The independent power supply by batteries, the compact design, the high protection class of the device and the background illumination of the display enable the use of Schako II at almost every place.



Display

Change-over switch
NAS / ISO

Light ON/OFF

The particle counter

Schako II is a particle counter for the mobile service use, which works with the light blockade principle and detects solid matter contents in hydraulic fluids. The measurement result can be optionally displayed in the following modes: NAS 1638, classes 3 to 14 or ISO 4406 ($6\mu\text{m} + 14\mu\text{m} (c)$), classes 8 to 22. Therefore, a definite classification of the purity degree of the operating fluid is given.

Schako II has been developed to judge the purity degree of used liquids in a fast, easy and exact way. It accomplishes the measurement by concentrating on the essential. The condition of the working liquid will be found out clearly and objectively. Due to the simple display of the results and the clear control elements the particle counter is a compact measurement system, easy to learn and to handle. This development demand can also be found in the reasonable purchase price. Therefore, it is possible to use the advantages of Schako II where and whenever necessary and useful.

Low-pressure tank-hose

High-pressure measurement-hose

Connection for auxiliary pump

Low-pressure measurement-hose

RS 232 C-interface

Battery charger connection

ON/OFF switch

Operation indicator /
measurement period

NAS 1638	5	■■■■
Akkueinhalt:		100%

ISO ($6\mu(c)$) 17	■■■■
Akkueinhalt:	100%

ISO ($14\mu(c)$) 14	■■■■
Akkueinhalt:	100%

Purity degree

Battery condition

The conditioning unit

During online measurements in any pressure system this unit provides automatically that the pressure level and the flow rate will be kept in the necessary limits to ensure a secure and exact measurement result. With different hose systems (various diameters and colours) as well as different connections it is guaranteed, that Schako II can be connected fast, simple and safe to the operating system. Appropriate safety precautions are integrated in the conditioning unit to enable a secure operation. The analysis of the purity degree of fluids in reservoirs is possible by the usage of an external pump and a low pressure feeding at the conditioning unit. Even in this case, the pressure level and the flow rate will be adjusted automatically. The particle counter and the conditioning unit are assembled to a complete unit..