

Portable Contamination Measuring System Pic 9100

New!!!
Calibration according to
ISO 11171:1999
Analysis according to
ISO 4406:1999
>4, >6, >14 μm

max. operating pressure 315 bar

1. Description

- Rugged portable unit for quick and simple particle analysis on site
- Simple menu-driven operation
- Laser sensor with 12 channels for exact and reproduceable results
- Possibility of suction- and pressure side operation
- Integrated suction pump with new system. Flow regulation independent from viscosity and pressure
- Prior to each measurement automatic flushing of the gauge head
- Adjustable measuring mode (single- and cyclic measurements)
- Long term measurements up to 330 hours
- Memory bank for 2,730 measurement values (up to 99 series).
- Calibration according to ISO 11171:1999
- Analysis according to ISO 4406:1999
Analysis according to ISO 4406:1991
Class 1 up to 24
- Analysis according to NAS 1638
Class 0 up to 12
- Measuring range ISO 4402: 2 - 100 μm
Measuring range ISO 11171: 4 - 100 μm
- Indication of the absolute numbers of particles in all channels
- Serial interface for further data processing via PC
- Integrated printer
- Threshold function contact for preadjusted min.- and max. classes



Subject to technical changes!

2. Technical Manual

The portable particle counter Pic 9100 consists of a sensor with pump / volume regulation unit / particle counter with display and a integrated printer.

All systems are fitted in an aluminium case.

The connections for suction -, pressure- and return line are fixed at the outer side of the case. For the electrical connecting cables and hoses separate compartments are available.

3. Specification

Pressure connection	: Measuring connection M16, max 315 bar (Minimeß)
Suction connection	: Srew connection 6 L, max 10 bar
Return line	: Srew connection 6 L
Pressure fluctuation	: permissible
Medium	: hydraulic fluids, fuels, water application upon request, provided the fluid is optically homogenous
Viscosity range	: max 500 mm ² /s, suction side max. 68 mm ² /s
Temperatur range	: Ambiance: 0 to 50 °C, Fluid: 0 to 80 °C
Sensor flow rate	: 40 ml/min
Flushing volume flow	: 40 ml/min
Measuring volume	: 10 to 100 ml, adjustable (10 ml steps)
Volume prior to counting	: 10 to 50 ml, adjustable (10 ml steps)
Counting time	: 15 s
Cycling time	: 1 to 99 min.
Sensor	: Laser diode sensor
Number of channels = 12	: >2, >5, >15, >25, >50, >100 µm according to ISO 4406 (extended 1987) >4, >6, >14, >25, >50, >100 µm according to ISO 4406 (extended 1999)
Indication acc. to NAS 1638	: 2-5 / 5-15 / 15-25 / 25-50 / 50-100 µm
Measuring range NAS-classes	: 0 to 12
Indication acc. to ISO 4406: 1987	: >2 / >5 / >15 µm
Indication acc. to ISO 4406: 1999	: >4 / >6 / >14 µm
Measuring range ISO-classes	: 1 to 24
Calibration	: According to ISO 11171:1999
Power supply	: 115 / 230 V ; 50 / 60 Hz / version with battery pack DC 12 V
Dimension	: 400 x 240 x 380 mm
Weight	: approx. 12 Kg

4. Software / Display

The indication is effected by a LCD display with 8 lines. Capability up to 99 series of measurements with max. 2,730 measurement values.

Analysis according to ISO 4406: 1987, ISO 4406: 1999 and NAS 1638

Printing output of number of particles and ISO/NAS classes.

The indication of number of particles and the corresponding NAS/ISO - classes is adjustable.

Serial interface is available for data output.

For control purposes availability of treshold function contact for pre-adjustement of min.- and max. ISO/NAS-classes (potential free switch- over contact).

5. Options

Data transfer to notebook (graphic illustration) with "LOG and SHOW" - software.

Battery pack version for mobil use.

Bottle sampling- and adapter-kit.