

TECHNICAL DATA & ORDERING CODE

13. Technical Data

Microprocessor-controlled 8-channel particle counter is ideal for contamination monitoring of mineral based hydraulic fluids. The particle counter is equipped with a laser sensor. The orifice of the sensor has a cross-section of 500 x 500 µm. The maximum concentration is 24,000 p/ml at a flow rate of 25 ml/min (ISO 4406 Code 23). The sensor can be calibrated in accordance with the following standards:

Calibration according to ISO 11 171 (1999):
4 ... 70 µm(c) relating to ISO 4406 (1999) and SAE AS4059 Rev. D (2001)

Calibration according to ISO 4402 (1991):
2 ... 100 µm relating to ISO 4406 (1987) and NAS 1638 (1964)

Channels	1	2	3	4	5	6	7	8
ISO 11171 in µm (c)	4	6	10	14	21	25	38	70
ISO 4402 in µm	2	5	10	15	20	25	50	100

Fluid compatibility

Mineral oils and phosphate esters
(other fluids on request, e.g. Skydrol)

Pressure and viscosity

High pressure 5 bar ... 420 bar (73 ... 6000 PSI)
Viscosity up to 300 mm²/s
Low pressure 0 ... 6 bar (0 ... 87 PSI)
Viscosity up to 160 mm²/s
(Through the integrated pump)

Power supply

Voltage range: 110 V ... 240 V AC
10 V ... 36 V DC
Rechargeable battery operation: 2,5 h
(battery charger is integrated in the counter)

Working conditions

Fluid temperature: 0 ... 90°C (32 ... 194°F)
Ambient temperature: 0 ... 40°C (32 ... 104°F)
Humidity 20% ... 85%, non-condensing
95% by storage

Data output:

Cumulative particle counts, as well as cleanliness classes to ISO 4406 / SAE AS4059 Rev. D (2001) and ISO 4406 / NAS 1638 depending on calibration (see ordering code).

Integrated printer

Integrated memory: 500 standard measurements (made of 3 single measurements)

Download software

Downloading and storage of the data in ASCII format, as well as the evaluation and the further processing in Microsoft Excel® 2000.

Dimensions (w x h x d)

Particle counter 310 x 310 x 145 mm
(12.2 x 12.2 x 5.7 in)
Case with wheels 410 x 720 x 200 mm
(14.3 x 18.5 x 7.1 in)

Weight

Particle counter 8.5 kg (18.7 lbs)
Particle counter with case and accessories
18 kg (40 lbs)

14. LasPaC 1 Kit includes:

- 1 x LasPaC 1 particle counter
- 1 x Aluminum trolley (case with wheels)
- 1 x Power supply connection cable
- 1 x Serial connection cable for connection to PC or notebook
- 1 x Software Download and Report
- 2 x STAUFF TEST hose (l = 1,5 m) for input/output
- 1 x Suction hose transparent (l = 1,5 m)
- 1 x Adapter low pressure hose to test coupling
- 1 x Control pen with plastic pin for the touchscreen
- 5 x Spare paper roll for built-in printer (order code SPR LasPaC)
- 1 x Operating instructions, in German and in English

15. Ordering Code

