PCSS fluid lite

Particle counter for fluids

KLOTZ®

Particle measuring systems for liquids, air, gases, oils and particle sizes.

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The particle counting system PCSS fluid lite is used for counting particles in fluids from pressure pipes and out of bottles. The number of particles is displayed, stored and transmitted to a computer in 16 size classes.

The laser sensor LDS 45/50 is used for contamination control of oils, diesel and kerosene. For the contamination control of water (drinking water, fluids in the pharmaceutical and chemical industry) an LDS 30/30 is available as an option. Concentrations of up to 200.000 p/ml are possible then. The sensor LDS 1/1 is used for monitoring cleaning baths. The sensor can be operated with a higher flow volume. Features of the LDS sensor include high reducibility and good resolution. The integrated double piston pump works independent of inlet pressure and viscosity. The particle counter PCSS fluid lite can be operated out of lab bottles, tank systems and pressure pipes.

Display with rotary knob

Evaluation software “Protrend”:

The USB port is used for parameterizing the devices. In addition, the evaluation software “Protrend” allows you to operate a single device. The evaluation software permits single and periodic measurements. Furthermore, it is possible to display single measurements and time courses as result (see also description “Protrend”). The measured data are displayed online and can be retrieved from the data memory later. An Excel template is available for exporting the data.

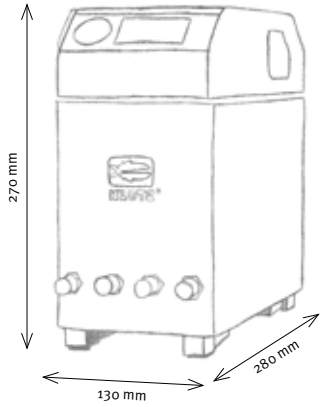
Back panel: power supply and USB plug

Option:

DIN plug for 3 power or voltage outputs and external start (24 VDC)

Specifications

- **Formulas freely definable**
- **Following standards can be applied:**
  ISO 4406(91/99), NAS 1638, GB 5930-86; GJB-420A-96, GJB-420B, GOST 17216-71, SAE-A6D, SAE-749D, SAE-AS4059E or 16 freely definable size channels (max. 3 formulas can be selected at the device, download and parameterizing via particle X.X or via the evaluation software “Protrend”)
- **Measured value output:**
  PC, display, printer, threshold output, data memory for 600 measurements
- **Software:**
  When using the evaluation software “Protrend” on the PC, several methods with up to 32 size classes can be applied. The presentation of measurements is possible as table and diagram (with Excel export)
- **Data memory for 600 measurements**
- **DPS pump:**
  Displacement volume: 10 ml
  Flushing-measuring volume: 10–1000 ml
  Inlet pressure: 10 bar;
  Option: DMV up to 315 bar
  Pump in suction or pressure mode through patch field
- **Ambient temperature:**
  5–40°C
- **Temperature of medium:**
  0–70°C
- **Power supply:**
  12 VDC/1 A Friwo plug-in power supply
- **Connection:**
  Minimess (M 16 x 3); 6 mm Ermeto (L)
- **Dimensions PCSS fluid lite (LxBxH):**
  280 x 130 x 270 mm
- **Accessories:**
  Sample feeder for pressure application of sample bottles



Particle sensors

Model	Flow rate [ml/min]	Measuring range [µm]	Cell dimensions [µm]	Max. conc. /ml
LDS 45/50	30	4–100	450 x 500	60.000
LDS 30/30	20	1–400 (latex in water) 4–100 (ISOMTD)	300 x 300	120.000
LDS 1/1	50	5–500	1.000 x 1.000	4.000

Application areas

Contamination control of fluids (bottle samples or samples from pressure pipes); testing of diesel and kerosene; contamination control of transmission fluids. The measuring device is for online measurements, for measurements in the lab, and due to its compact design suitable for mobile use on site.
Option: battery operation

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