

Particle Counting Systems PZG-5/PZG-6

The sample feeders PZG-5/PZG-6 for dry samples and granules may be operated together with the particle counter Abakus or the PC measuring card SLC 1.0. The systems are suitable both for offline measuring in the lab as well as for online measurement in the operation process. Typical areas of application are the particle size analysis during the manufacturing of foodstuff, abrasive grain, dusts, and in the processing of pharmaceutical products. The particle distribution may be represented in up to 4096 classes as graph or table on an IBM compatible computer system. At the display of the counter you can observe the measurement even during the measuring process. Sensor characteristic lines and measuring rows are stored in the memory of the particle counter. After the end of a measurement you may have a measuring protocol printed out. In addition it is possible to have the measuring results transferred and processed further in different programs (Excel, Lotus 1-2-3) by using the evaluation software "Log and Show".

The sample feeder PZG-5 is applied for the particle analysis in dry samples. The system may be operated with various sensors, thus being able to cover a measuring range of 2 – 2500 µm. The dry samples are fed to the sensor with the help of a brush system. The eccentric brush principle enables best dispersion of the sample. You need a vacuum for the sample feeding system that is best created by means of a regulated vacuum cleaner or venturi tube.

The sample feeder PZG-6 is used for the measurement of granules and trickling grain. The samples are fed to the sensor by means of a vibrating gutter. Depending on the particle size you may use laser sensors with a permeability of up to 50 x 50 mm. The equipment is delivered with a regulated vibrating gutter. The system's effectiveness may be improved with the help of vacuum.

Technical Specifications

Particle Counter Abakus

Display and control	:	background-lighted graphical LCD display, 5-key-operation
Measuring mode	:	single measurement or continuous measurement
Data contents per data batch	:	date, time, sample ID / number, measuring time, pause time, 32 freely programmable particle size channels with distributive, cumulative particle number and volume distribution, mean value depending on setting, alarms
Printer:	:	thermal printer DPU 414
Computer interface	:	RS 232 C (V. 24)
Power supply	:	230/115 VAC, 50/60 Hz, max. 20 W
Accessories	:	evaluation software "Log and Show"

PC measuring card SLC 1.0

Slots : 16 Bit ISA-Slot (long), evaluation via PC software

Sample Feeder	PZG-5	PZG-6
Sample Volume	2 ml	0,1 – 0,5 l / 0,1 – 2 l
Vacuum	0,5 bar, 2 l/min – 20 l/min (depending on sensor type)	0,5 bar, 10 l/min – 100 l/min (depending on sensor type)
Power supply	connection cable to Abakus or PC meas. card	230 VAC, 50/60 Hz, 20 W
Dimensions	300 x 100 x 250	300 x 300 x 250
Weight	1,5 kg	4 kg
Accessories	venturi tube, regulated industrial vacuum cleaner	

Particle sensors

Model	Flow rate in l/min	Measuring range in µm with Latex calibration	Cell dimensions in µm	Max. concentration particle/ml
LDS 1/1	0,5	5 – 500	1 000 x 1 000	5 000
LDS 2/2	1	15 – 1 800	2 000 x 2 000	1 000
LDS 8/8	10	20 – 5 000	8 000 x 8 000	-
LDS 45/50	100	1,5 – 150 (400)	450 x 500	25 000