SPECIFICATIONS

PULSE HEIGHT ANALYSIS SOFTWARE

KF-50A

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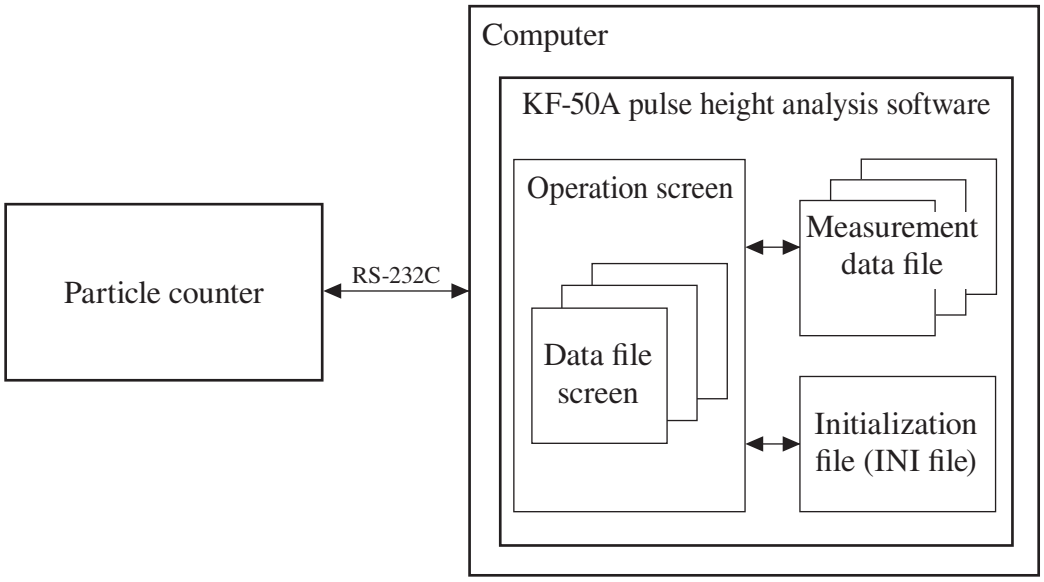
Overview

The KF-50A Pulse Height Analysis Software is a software that displays the pulse height analysis result of the particle counter with built-in pulse height analysis functionality and operates on the computer. The particle counter performs pulse signal height analysis internally, and the KF-50A software controls measurement and displays measurement results.

The KF-50A software uses a histogram to detect the peak pulse count between selected channels, and to determine the channel where the cumulative count reaches 50% of the total count. Additionally, the noise level of a measurement sample can be measured.

* All company names and product names mentioned in this specifications are trademarks or registered trademarks of their respective owners.



Block diagram

Specifications

Operating environment

Main unit	IBM PC/AT compatible computer	
OS	Microsoft Windows 10 Pro 64 bit	
	Microsoft Windows 11 Pro	
Other	CD drive	
	USB interface × 1	
	Serial interface × 1	

Basic operations and functions

Measurement	Automatic measurement		
	Automatic repeated measurement		
		Hold interval	2 to 6000 s, 1-s steps
		Repeat count	2 to 9999 times, infinite
Setting items	Analyze range		39063 µV, 78125 µV, 156250 µV, 312500 µV, 625000 µV, 1250000 µV, 2500000 µV, 5000000 µV
	Pulse height resolution		153 µV, 305 µV, 610 µV, 1221 µV, 2441 µV, 4883 µV, 9766 µV, 19531 µV where each depend on the selected analyze range
	Particle size range		1 to 10
	Measurement end condition		
	Using measurement time		1 to 6000 s, 1-s steps
	Using total count		1 to 100000, 1-count steps
	Measurement results storage		
	Manual		
	Automatic (Specified file name saved)		
Display	Graph functions		
	Pulse height (channel) based pulse count histogram		
	Vertical axis full-scale switching (automatic, manual)		
	Vertical axis switching (linear, logarithmic)		
	Measurement time and total count		
	Cumulative percentage curve		
	Marker		
	Numeric list		

Functions	Peak search		
	Cumulative count 50% voltage and standard deviation computation		
	Smoothing		
	Voltage to particle size		
	Comment text input		
	Screen copy		
	Measurement results store/read		
	Measurement results printing		
Communication parameters			
	Standard	JIS X 5101:1982 compliant	
	Communication method	full duplex, asynchronous	
	Port	COM1 to COM256	
	Communication speed	4,800 bps, 9,600 bps	
	Character length	7 bits, 8 bits	
	Parity	odd, even, no parity	
	Stop bit	2 bits, 1 bit	
	Terminator code	*<CR><LF>*, *<CR>*	
Supplied accessories	Protection key		1
	Instruction manual		1
	Inspection certificate		1
Optional accessories	Communication cable		CC-61A
	Communication cable		CC-63A
	Protection key		

Specifications subject to change without notice