HCTM CO.,LTD.

OPC & LPC

Portable particle counter

The Portable particle counter was designed to meet today's rigorous Cleanroom standards, making it an ideal solution for cleanroom monitoring, spot checking, and certification.

The Portable particle counter offers two types of flow rates : 1.0 CFM (28.3 L/min) and 0.1 CFM (2.83 L/min). Up to 6 channels can be configured upon request. The OPC models measure particle sizes ranging from 0.3µm to 10.0µm, while the LPC can measure particle sizes from 10µm to 70µm.

Data can be viewed on the large color touchscreen display, downloaded directly to a PC, or transferred via a USB drive. The included software enables real-time monitoring both on-site and at remote locations. The Portable particle counter conforms to ISO-21501-4 and JIS 9921B international standards.



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Features

- Complies with all requirements of ISO 21501-4
- Measure particle size and number concentration
- Count individual particles by collecting single particle light scattering
- Up to 6 channels of simultaneous particle count data
- Touch screen control and user-friendly interface
- Size range : 0.3 ㎛ ~ 10 ㎛, 10 ㎛ ~ 70 ㎛ (LPC)
- 1.0 CFM (28.3 L/min), 0.1 CFM (2.83 L/min) flow rate
- Printer for immediate output
- Data transfer via USB, USB flash drive, Ethernet
- Stainless Steel enclosure

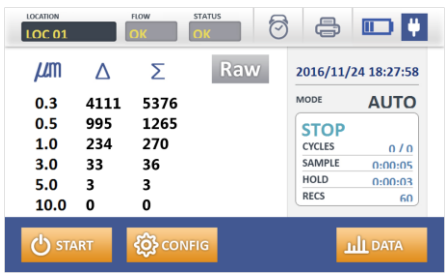
Applications

- Statistical Process Control
- Portable or Dedicated Use
- Tool and Equipment Testing
- Cleanroom Monitoring
- Trend Analysis
- Facility Certification Testing

Display screen



Config



Main

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Specifications

Model1	OPC		LPC
	PC-3106P (1.0 CFM)	PC-3016P (0.1CFM)	LPC-1104P
Particle channels	0.3 / 0.5 / 1.0 / 3.0 / 5.0 / 10.0 ㎛		10 / 25 / 50 / 70 ㎛
Particle channel resolution	6 CH		4CH
Counting efficiency	50 % at 1 Channel size (per ISO-21501-4 & JIS 9921B)		
Consentration limits	1,200,000 particles/ft^3	2,280,000 particles/ft^3	600,000 particles/ft^3
	@ 10% coincidence loss		
Zero count level	≤ 5 counts / ㎥	≤ 7 counts / ㎥	≤ 2 counts / ㎥
	(per ISO-21501-4 & JIS 9921B : ≤ 7 counts / ㎥)		
Flow rate	1 CFM (28.3 L/min)	0.1 CFM (2.83 L/min)	1 CFM (28.3 L/min)
Sampling time	1 s ~ 24hrs (User selectable)		
Vaccum source	Internal Pump		
Light source	Laser diode		
Reports	cleanroom certification reports for FS 209E, ISO14644-1 and EUGMP (Applicable only to models with a flow rate of 1.0 CFM - Option)		
Display	7 inch color TFT LCD touch screen display		
Printer	built-in thermal printer		
Communication Modes	USB Flash drive, Ethernet (TCP/IP, Modbus TCP)		
Data storage	32 GB (> 10,000,000 samples)		
Battery	Li-ion battery		
Dimension (LWH)	25.3 x 22.7 x 23.0 cm (9.96 x 8.94 x 9.06 in)		
Weight	7.38 kg	6.55 kg	7.38 kg
	(16.3 lb with Battery)		
Enclosure	304 stainless steel		
Power	Adapter (100 ~ 240 V, 50/60 Hz / Output: 19 VDC, 6.3 A)		
Operational Environment	0℃ ~ 35℃, 1 ~ 95 %RH, Non condensing		
Warranty	1 year		

- **ACCESSORIES** Adapter / Sampling tube 2 m / Purge filter / Single-host Monitoring program
- **OPTIONAL ACCESSORIES** Isokinetic sampling Probe / Multi-location Monitoring program / 6 Channel configuration (LPC) / Reports (1.0CFM OPC, LPC)

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