

Handheld Particle Counter With SD Card Data Recorder and USB Interface

HHPT-51  

- Six Particle Size Channels: 0.3 µm, 0.5 µm, 1.0 µm, 2.0 µm, 5.0 µm, 10 µm
- Temperature/Humidity Reading
- Flow Rate 2.83 LPM (0.1 CFM)
- Rechargeable Battery Provides Up to 4 Hours of Continuous Operation (Charge Time 2 Hours)
- Storing and Redisplay of Up to 500 Measurement Data Sets (with SD Card)
- Password Protection for Measurement Settings

The HHPT-51 meter is a portable instrument that measures and reports air contamination. It holds 500 samples in memory and records the date, time, counts, sample volume, temperature, and relative humidity of each sample. The data can be easily downloaded to a personal computer using the USB interface cable.

Applications

- Monitoring Cleanrooms
- Indoor Air Quality Investigations
- Monitoring Gowning Rooms
- Testing Filter Seals
- Locating Particle Contamination Sources
- Monitoring Particle Size Distributions

SPECIFICATIONS

6 Particle Size Channels: 0.3, 0.5, 1.0, 2.0, 5.0, 10.0 µm

Flow Rate: 2.83 LPM (0.1 CFM)

Light Source: Laser diode

Calibration: PSL particles in air

Counting Efficiency: 50% at 0.3 µm; 100% for particles > 0.45 µm (per JIS B9921:1997)

Zero Count: 1 count/5 minute (per JIS B9921:1997)

Coincidence Loss: 5% at 2,000,000 particles per cubic ft.

Relative Humidity: ±7%, 20% to 90% RH, non-condensing

Temperature: ±3°C; 10 to 40°C (50 to 104°F)

Data Storage: 500 sample records (rotating buffer)

Data Recorded: Date, time, counts, relative humidity, temperature, sample volumes, alarms and labels

Display: TFT color display with backlight

Count Modes: Concentration, totalize, audio

Delay Time: 0 to 24 hours

Sample Inlet: Isokinetic probe

Interface: USB

Vacuum Source: Internal pump flow controlled

Dimensions: 11.0 H x 21.8 W x 6.7 cm D (4.33 x 8.58 x 2.64")

Weight: 875 g (1.9 lb)

Environmental

Operating: 10 to 40°C (50 to 104°F), 20 to 90% RH, non-condensing

Storage: -10 to 50°C (14 to 122°F), up to 90% RH, non-condensing

Power: AC adapter, 12 Vdc at 3 A, 100 to 240 Vac, 50 to 60 Hz

Rechargeable Battery: Lithium ion, 8.4V at 2.5 Ah; replaceable

Charge Time: 2 hours (fast charge mode), 27 hours (trickle charge mode)

Continuous Operating Time: 4 hours

Standards: Complies with CE, JIS B9921; 1997, ISO 21501-4



HHPT-51 shown smaller than actual size.

Model No.	Description
HHPT-51	Handheld particle counter

Comes complete with AC adapter, power cord, USB cable, zero count filter, SD card, hardshell carrying case and operator's manual.