

## ***"Defining the Science of Particle Counting"***

### **FEATURES**

- Battery or AC operation
- 0.3 micron at 0.1 cfm
- Counts 6 sizes simultaneously
- Stores 500 records (with Option EX – 2,000 records)
- Eight programmable location labels
- Internal rechargeable battery
- Lightweight
- Built-in RH and Temp
- Easy download to computer
- Windows compatible download software
- Network capable

### **APPLICATIONS**

- Monitor clean rooms
- Indoor Air Quality Investigations
- Monitor growing rooms
- Test filter seals
- Test filter efficiency
- Track down particle contamination sources
- Monitor particle size distributions
- Industries:

- Food and beverage
- Hospitals
- Pharmaceutical
- Medical device assembly
- Cleanroom laundries
- Cleanroom packaging
- Aerospace
- Indoor air quality
- Paint spray booths
- Filter testing

manufactured by

# **ARTI**



## **HAND HELD PARTICLE COUNTER HHPC-6**

## **A**ccurate **R**eliable **T**raceable **I**nstruments

- ✓ **Self-contained, ergonomic, easy to operate**
- ✓ **Fast, easy connection to computer or printer**
- ✓ **Selectable sample time, count data, programmable delay**
- ✓ **Up to 8 programmable location labels**
- ✓ **Set sample times to cubic feet or liters**
- ✓ **Data displayed in totalize or concentration modes**
- ✓ **Temperature displayed in Fahrenheit or Celsius**
- ✓ **Built-in, programmable alarms**
- ✓ **Built-in purge filter protects the cleanroom from pump exhaust**
- ✓ **Automatic turn-off when battery voltage drops below safe operating level**
- ✓ **Meets the most stringent performance standards set by the industry**

The ARTI Handheld Airborne Particle Counter (HHPC-6) simultaneously displays six channels of particle size distribution. The HHPC-6 holds 500 samples (2,000 with Option EX) in data memory and records date, time, counts, sample volume, temperature and relative humidity. Data is easily downloaded to a computer or printer using the included RS-232/RS-485 interface cable and utility software. With value-packed features and excellent reliability, it is easy to see why the HHPC-6 is a winner among professionals who monitor and verify cleanrooms, test filters, and track down particle source problems. The intelligent design and overall utility of the HHPC-6 is invaluable for IAQ investigations, making workplace environments safer and healthier.

## SPECIFICATIONS

### Hand Held Particle Counter (HHPC-6)

6 Size Channels:	0.3 µm; 0.5 µm; 0.7 µm; 1.0 µm; 2.0 µm; 5.0 µm
• Standard	0.5 µm; 0.7 µm; 1.0 µm; 2.0 µm; 5.0 µm; 10.0 µm
• IAQ	0.3 µm to 20 µm available
• Custom	0.1 CFM (2.83 l/min.)
Flow Rate:	Laser diode; index guided
Light Source:	≥ 26,000 hours at 25°C
MTBF:	PSL particles in air (NIST traceable)
Calibration:	50% @ 0.3 µm; 100% for particles > 0.45 µm (per JIS B9921:1997)
Counting Efficiency:	≤ 1 count/5 minute (per JIS B9921:1997)
Zero Count:	5% at 2,000,000 particles per ft <sup>3</sup>
Coincidence Loss:	± 7%, 20% to 90%, non-condensing
Relative Humidity:	± 3°C, 10°C to 40°C (50°F to 104°F)
Temperature:	500 sample records (rotating buffer)
Data Storage:	Date, time, counts, relative humidity, temperature,
Data Recorded:	sample volumes, alarms, label
Display:	Graphic liquid crystal with back light
Alarms:	Counts, low battery, sensor fail
Count Modes:	Concentration, totalize, audio
Delay Time:	0 ~ 24 hours
Sample Inlet:	Isokinetic probe
Interface:	RS-232 and RS-485 via RJ-45
Vacuum Source:	Internal pump flow controlled
Housing:	Injection molded plastic
Dimensions:	4.5" (w) x 8.25" (l) x 2.25" (d); (11.43 cm x 20.96 cm x 5.72 cm)
Weight:	2.2 pounds, 1 kg

#### Environmental Conditions:

Operating:	
Relative Humidity:	20% to 90%, non-condensing
Temperature:	10°C to 40°C (50°F to 104°F)
Storage Environment:	
Relative Humidity:	Up to 90%, non-condensing
Temperature:	-10°C to 50°C (14°F to 122°F)

#### Power:

AC Adapter:	12 VDC at 2.5 A, 90 to 250 VAC, 50 to 60 Hz
Rechargeable Battery:	NiMH, 4.8 V at 4.5 Ah; replaceable
Continuous Operating Time:	8 hours
Recharge Time:	2 hours

#### Standard Accessories:

- Certificate of Calibration (NIST)
- Windows compatible software data download utility
- DB9 to RS-232 adapter and cable
- Screw-on Isokinetic Probe
- High Purity Tubing
- 1/8 in. Hose Barb Adapter
- Power Supply, AC/DC 12VDC
- Operation Manual

#### Optional Accessories:

- Zero Count Filter
- Carrying Case (soft-sided or hard molded plastic)
- Portable serial printer w/cable, 2 rolls paper
- Option "EX" – 2,000 records
- Optional particle size range – up to 20 µm

#### Standards:

CE  
JIS B9921: 1997