## **H303 and H503 Handheld Airborne Particle Counters**

0.1 CFM (2.83 LPM)



- Industry's highest concentration of 15,000,000 particles/ft³ @ 10% coincidence loss
- · Ideal for use in research, industrial health and safety, indoor air quality, and cleanroom applications
- >10 hours continuous operation on a fully charged battery
- Industry's first Sleep Mode and Power Conservation Mode with Intelligent Battery
- · The most comprehensive internal self-diagnostics of any handheld particle counter
- Internet of Things (IoT) communication allows for network or cloud-based data options



The Airy Technology® H303 and H503 Handheld Particle Counters measure 0.3 or 0.5 to 25.0 µm with a flow rate of 0.1 CFM (2.83 LPM). Easy to configure, these instruments display up to 3 user-selectable size channels as well as temperature and relative humidity. View data or export to Instrument Management Software (IMS). Airy Technology® counters can be controlled and monitored remotely via web browser.

All Airy Technology® counters meet ISO 21501-4 and JIS B9921. The H303 and H503 ensure compliance with an on-board pulse height analyzer.

## **Features and Benefits**

- H303: Measures 0.3 μm to 25.0 μm.
- H503: Measures 0.5 μm to 25 μm
- 0.1 CFM (2.83 LPM) flow rate
- Long life laser diode technology
- Measures up to 3 channels of simultaneous data
- Integrated handle for one-handed operation
- Large easy-to-use icon driven color touch screen display
- Stores up to 45,000 sample records and 1,000 sample locations
- Easy configuration and transferable from instrument to instrument
- Connect using USB or (optional) Ethernet, Wireless 802.11 b/g
- Internal audible alarm
- User-selectable channel sizes
- Complies with ISO 21501-4 and JIS B9921 standards
- Easy to clean and wipe down with minimal particle traps
- Seamless integration into a facility monitoring system
- Lightweight high-impact injection molded plastic enclosure
- 1 year warranty. Extended warranties available

## **Optional Features and Benefits**

- Tempeature and relative humidity probe
- Ethernet, Wireless 802.11 b/g, RS485, or RS232 output
- Additional 3 size channels (easily add at any later time)
- External printer and printing option

## **Specifications**

H303 H503 Models Size Range 0.3 to 25 µm 0.5 to 25 µm Factory calibrated at 0.5, 1.0, 5.0 µm

Factory calibrated at 0.3, 0.5, 5.0 µm Size Channels

Counting Efficiency 50% @ 0.3 μm; 100% for particles >0.45 μm per JIS 50% @ 0.5 μm; 100% for particles >0.75 μm per JIS

0.1 CFM (2.83 LPM) Flow rate

Concentration Limit 15,000,000 Particles/ft3 @ 10% coincidence loss

**Battery Run Time** >10 hours continuous operation

Light Source Long life laser diode

Zero Count <1 count / 60 minutes (<1 particles / 6 ft3)

Count Modes Cumulative/differential, count, count/m3, and count/ft3

Count Alarms 1 to 9.999.999 counts NIST traceable Calibration

Display 4.3" (10.9 cm) WQVGA (480x272) color touch screen

Printer (Optional) external thermal printer available Vacuum Source Internal pump with automatic flow control

Filtered Exhaust Internal HEPA filter

Number of Channels

Custom Size Channels Calibration for custom size channels available

Audible Alarm Adjustable built-in alarm Battery Removable Li-ion

Battery Recharge Time 4 hours within instrument (<2 hours with external battery charger)

Communication Modes USB. (Optional) Ethernet, Wireless 802.11 b/g, RS485 or RS232.

(Optional) Temp and RH probe 32° to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity **Environmental Sensor** 

Alarms on counts for all particle sizes, sensor failure, environmental sensors and flow Alarm

Standards ISO 21501-4 and JIS B9921

Instrument Calibration Recommended minimum once per year **External Surface** High impact injection molded plastic

5.12" x 4.25" x 12.26" (13.0 cm x 10.8 cm x 31.1 cm) includes handle and does not include probes Dimensions (L x W x H)

Weight 2.2 lb (1.0 kg)

Operating manual and IMS Software on USB flash drive, isokinetic probe, purge filter, battery, USB Accessories

cable, power supply and cable

Printed manual, carrying case, spare battery, external battery charger, external printer, isokinetic Optional Accessories

probes, temperature and hunidiy sensor, barb fittings, and IMS-RT monitoring system

**Buffer Memory** 45,000 sample records (rotating buffer) including particle count data, environmental data,

locations, and times. Scrollable on screen or printout.

Sample Locations Up to 1,000 locations 20 characters long

Sample Time 1 second to 99 hours

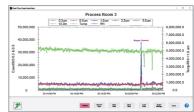
Power 110 to 240 VAC 50/60 Hz universal in-line power supply 41° to 104°F (5° to 40°C) / 20% to 95% non-condensing Operating Conditions 32° to 122°F (0° to 50°C) / Up to 98% non-condensing Storage Conditions 1 year limited warranty. Extended warranties available. Warrantv



Audible and Visual Alarm Management

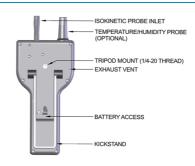


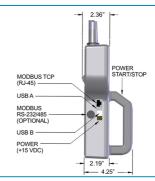
Icon Driven Menus for Ease-of-Use



Control and Manage Remotely with IMS







PAT. https://particlepatents.com/ Additional Patents Pending.

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