

# AEROCET 532

## PARTICLE MONITOR

### FEATURES:

- LARGE FULL-COLOR LCD DISPLAY
- MENU-DRIVEN MULTI-FUNCTION ROTARY SCROLL WHEEL
- 10 USER-IDENTIFIABLE ALPHA NUMERIC LOCATION ID's
- INTEGRATED RH & TEMP SENSOR



### AEROSOL MASS & PARTICLE COUNT IN A SINGLE HANDHELD

### SAMPLING MODES:

- COUNT & MASS
- SINGLE OR CONTINUOUS
- SELECTABLE TIME

Meet the newest addition to the Met One Instruments, Inc. lineup of handheld particle monitors: the Aerocet 532. This particle monitor has been optimized in functionality and ease of use with a 2.8" TFT full-color LCD display, making accurate measurement readings and operation more effortless than ever. Measuring both particle mass and particle count, this full-featured particle monitor is the perfect addition to any indoor air quality expert's tool kit.

The Aerocet 532 simultaneously measures and records PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>4</sub>, PM<sub>7</sub>, PM<sub>10</sub>, and total suspended particulate (TSP). Measurements are rapidly computed and totaled in as little as 60 seconds, recorded using an advanced profile algorithm. In addition to making mass measurements, the Aerocet 532 contains an 8-channel particle counter with a calibrated range of 0.3 to 10 microns.

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**An upgraded full-color LCD display makes measurement and selection effortless, supported by simple navigation.** New features include an instrument wellness check, modifiable operating conditions, an internal toolbox, and last calibration date. The user may customize up to ten specific locations with alpha-numeric identification.

This rugged handheld device is constructed of an all-metal package coupled with an advanced user interface making it a first choice for professionals. The Aerocet 532 is designed for portable operation in difficult environments, with an internal battery life of 8 hours of continuous sampling.

Internal data storage allows for 15,000+ records of either mass measurements or particle counts, and complementary COMET software enables the user to easily download and analyze readings. Data outputs in a .CSV format.

### TAILORED MASS CONVERSION

The particle counts from this device are converted to mass using a proprietary algorithm for typical-density aerosols. Accommodation for special particulate with different densities is provided through user-programmable K factors.

### FLEXIBLE DATA INTERFACES

The stored data records may be viewed on the large, color display, or transferred to a computer via USB. Met One's included COMET software makes file transfers easy with the capability to import sample data into an excel spreadsheet. Utilize the ALL-NEW optional docking station



**FEATURING AN  
OPTIMIZED INTERFACE  
TO MAKE SAMPLING  
EASIER**

with WiFi, ethernet and RS-485 connectivity for even easier data transfer.

### RH & TEMPERATURE SENSOR

Equipped with an integrated relative humidity and temperature sensor, data reports automatically include these parameters.

### USER INTERFACE

Tactile navigation has been streamlined with a 'Start/Stop' button, a 'Menu/Escape' button, and a 'Press/Select' rotary knob for scrolling that doubles as a selection switch when pressed. The result is a faster, more intuitive interface.

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## PARTICLE MONITOR



**Intuitive Navigation**

**Assign up to 10  
Different Locations  
with Alpha-Numeric  
Identification**



**COLOR LCD  
DISPLAY**



**New Interface Features  
Numeric Sample  
Countdown Timer**



**Scrolling  
Functionality  
Streamlines  
Sampling**

**Integrated Tools  
Menu to Optimize  
Device Capabilities**



## Mass Mode

Mass Concentration	PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>4</sub> , PM <sub>7</sub> , PM <sub>10</sub> , and TSP
Ranges Sensitivity	0.3µm
Concentration Limit	0 – 1,000 µg/m <sup>3</sup>
Sample Time	1, 2, 5, 10, 15, 30 or 60 minutes

## Particle Count Mode

Concentration Limit	0 – 3,000,000 particles per cubic foot (105,900 particles/L)
Sample Time	1, 2, 5, 10, 15, 30 or 60 minutes
Size Accuracy Sensitivity	± 10% to calibration aerosol
Flow Rate	0.1 cfm (2.83 lpm)
Particle Size Ranges	0.3 µm, 0.5 µm, 1.0 µm, 2.5 µm, 4.0 µm, 5.0 µm, 7.0 µm and 10 µm

## Electrical

Light Source	Laser diode, 90 mW, 780 nm
Battery Pack	7.4V Li-ion battery pack
AC Adapter/Charger	Li-ion battery charger, 100-240 VAC, 50/60Hz
Communications	USB-C Serial; With Optional Docking Station, RS-485, WiFi, & Ethernet
Battery Life	8 hours continuous operation

## Interface

Display	2.8 inch TFT full-color LCD
Keyboard	2-button membrane keypad with rotary dial

## Physical

Weight	1.0 lb, 13.5oz (0.84 kg)
Size	Height = 8.8" (22.35 cm) Width = 3.75" (9.53 cm) Thickness = 2.25" (5.72 cm) (without rubber boot)

## Environmental

Operation Temperature	0° to +50°C
Relative Humidity	< 95% (non-condensing)
Storage Temperature	- 20° to +60°C

## SUPPLIED ACCESSORIES

- User Manual
- Isokinetic Sample Inlet
- EVA Carrying Case
- USB Cable
- Zero Particulate Filter
- Calibration Certificate
- RH & Temperature Probe
- Rubber Boot
- Comet Software
- AC Adapter/ Battery Charger

## OPTIONAL ACCESSORIES

- Swift 6.0 Flow Meter
- Docking Station w/ WiFi, Ethernet & RS-485 connectivity (p/n 83529)



*Specifications are subject to change at any time.*

