

MCA 4000

MULTI-CHANNEL ANALYZER



Introducing the latest technological innovation from Met One Instruments, Inc., the MCA 4000 Multi-Channel Analyzer. This instrument is a complete particulate counting and sizing measurement system that provides a 4,096 channel spectrum for airborne particulate between 0.3 and 10.0 microns. The MCA 4000 utilizes light scatter technology, and sheath air is used to prevent contamination of internal optics of the instrument. It is designed to collect a one-minute (selectable) sample

for output to your desktop or laptop computer. Not only does the supplied PC software display a graph of the resultant sample and store the data for later analysis, but it also has a variable display function for magnified resolution of any part of the graph. Variable selection of the graph allows the user to zero in and highlight an area of interest. For highest resolution and maximum flexibility, the output of the MCA 4000 is displayed on your computer's high-resolution screen. Four thousand channels calls for a big screen!

MCA 4000 MULTI-CHANNEL ANALYZER



IDEAL FOR:

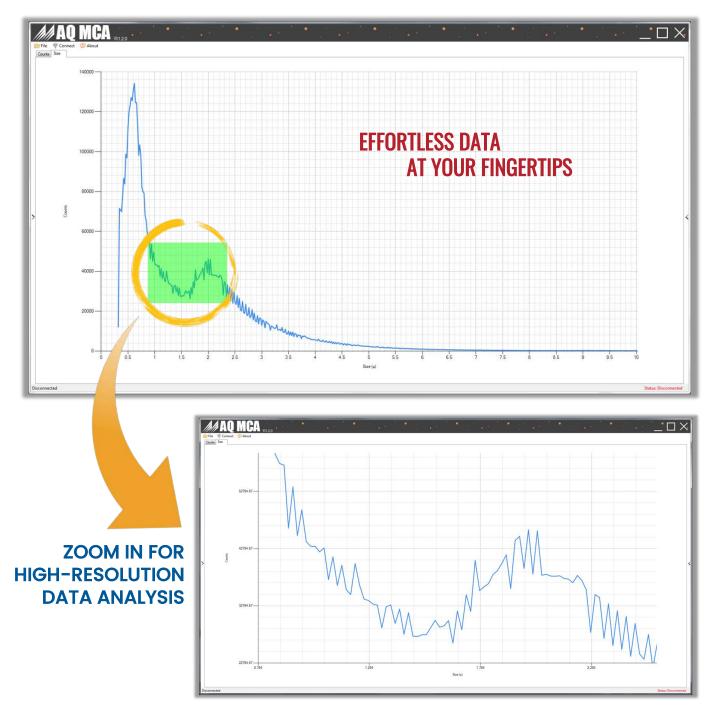
- WORKPLACE MONITORING
- INDOOR AIR QUALITY
- AEROSOL RESEARCH
- TESTING FILTER MATERIAL
- CONTROLLED ENVIRONMENT QUALITY CONTROL

Met One's MCA 4000 is battery operated for convenient, portable use for up to 9 hours of continuous operation. Connect the AC adapter/charger for longer operation and battery charging. The instrument is housed in a portable stainless-steel enclosure complete with a handle for easy transportation, and only requires your computer to place in operation. The large touch screen display is used to easily display data and/or update user configuration settings such as sample period, measurement units, and measurement sizes.

Under typical operation, particles are sampled through an isokinetic inlet. This allows the instrument to sort particles into 4000+ channels by count size. Data is continually updated to the computer. If the software is not being utilized, the MCA will still be able to sample and store data.



TYPICAL SOFTWARE DATA DISPLAY



OPTIONAL ACCESSORIES

- Swift 6.0 Flow Meter
- Serial Cable
- USB Cable
- ISO 21501-4 Calibration Certificate

CONTACT OUR SALES TEAM TODAY FOR A QUOTE:

SALES@METONE.COM

SPECIFICATIONS MCA 4000

PARAMETER

Interface

Display 640 x 480 Touch Screen Display

Performance

Particle Size Range 0.3 µm - 10 µm, 4,096 channels

Calibrated Sizes 0.3, 0.5, 0.7, 1.0, 2.0, 3.0, 5.0 and 10.0 µm

Concentration Range 0 – 9,000,000 particles per cubic foot (300,000 particle/L)

Accuracy ± 10% to calibration aerosol

Sensitivity 0.3 µm Flow Rate 1 LPM

Sample Time User settable: 1 Min, 5 Min, 10 Min, 15 Min, 30 Min, 1 Hr

Sheath Flow Rate 1 LPM

Electrical

Light Source Laser Diode, 100 mW, 785 nm

Power 14.8 V Li-Ion self-contained battery pack – Provides for 9 hours, 7 minutes

continuous use. Full recharge approximately 3 hours.

AC Adapter/Charger Li-Ion Charger, 100 – 240 VAC to 16.8 VDC @ 1.8 A USB,

Communications RS-232 or RS-485, USB

Standards Meets ISO 21501-4. ISO 9001 manufacturing facility.

Physical

Weight 8 lbs 10 oz. (3.91 kg)

Size Height = 8.75" (22.2 cm) With Handle = 10.25" (26.0 cm)

Width = 6.75" (17.1 cm) Depth = 8.5" (21.5 cm)

Environmental

OperatingTemperature 0° to +40°C Storage Temperature -20° to +50°C

SUPPLIED ACCESSORIES

- Operator's Manual
- Calibration Certificate (NIST)
- Zero Count Filter
- Power Cord
- Software Available from Website



Specifications are subject to change at any time.