



MET ONE 3411 Portable Airborne Particle Counter



Be Right™

Does your particle counter contaminate your cleanroom? Do you trust the results? How much time do you spend recording and analyzing the data?

Cleanroom friendly monitoring

*Reduced particle impact
to cleanroom environment*

Unit-to-unit accuracy and reproducibility

Assured through ISO 21501 compliance

Flexible communications

Wireless, Ethernet, Serial and USB



Long continuous operation

Dual hot-swappable batteries

Intuitive touch-screen user interface

*Easy area, location, operating
parameter configuration and replication*



Introducing the MET ONE 3411 0.1 micron sensitivity portable airborne particle counter. Unlike many particle counters the MET ONE 3411 fan remains off when operating in a standard semiconductor cleanroom environment thus particle generation is virtually eliminated.

The MET ONE 3411 is designed to meet the rigorous requirements of ISO-21501-4 to provide the users with unparalleled accuracy. This assures the repeatability of particle measurements between multiple instruments; critical for process benchmarking and troubleshooting activities.

Specifications

| | |
|----------------------------------|---|
| Number of Size Channels | 6 |
| Particle Sizes | 0.1, 0.2, 0.3, 0.5, 1.0, 5.0 |
| Flow Rate | 1.0 CFM (28.3 LPM) |
| Zero Count | ISO 21501-4 and JIS B 9921: 1 count or less in 5 minutes, 95% UCL |
| Coincidence Loss | 5% at 50,000 /ft ³ per ISO 21501-4 method |
| Counting Efficiency | 50% at 0.1 µm; 100% for particles > 0.15 µm per ISO 21501-4 and JIS B 9921 |
| Light Source | Helium Neon Laser |
| Pump Type | Patented multi-lobe closed loop controlled rated for continuous use |
| Display | ¼ VGA Color TFT touch screen |
| Printer | High speed thermal |
| Language | English, French, German, Italian, Spanish, Korean*, Japanese*, Chinese (Simplified and Traditional)* |
| Maximum Count Displayed | 9,999,999 displayed |
| Delay Time | 15 seconds to 23 hours 59 minutes 59 seconds |
| Sample/Hold Times | 1 second to 23 hours 59 minutes 59 seconds |
| Count Alarms | 1 to 9,999,999 counts |
| Data Storage | 5,000 samples, scrollable on Historical Data review screen (FIFO or Overflow) |
| Locations | ID: 0 to 999; NAME: Alphanumeric, appears on printout |
| Outputs | USB Client (Version 1.1) USB Host (Version 1.1) RS-485 Ethernet with TCP/IP protocol Wireless with 802.11g protocol (optional) MET ONE 2432 Manifold Auxiliary (alarm and scan probe) |
| Communication Protocol | Modbus TCP, Modbus RTU, Serial FX |
| Inputs | Air Velocity Probe RH/Temperature Probe |
| Auto CDA Purge | Purge solenoid activated by connection to CDA |
| Warranty Instrument | 2 years |
| Battery Type | Lithium ion smart battery; rechargeable, ejectable, and hot-swappable |
| Battery Quantity Included | 2 |
| Battery Operating Time | 3 hours minimum |
| Battery Recharge Time | 6.75 hours minimum, 10 hours maximum |
| Power | 24 VDC with 100-240 VAC, 50/60 Hz adapter |
| Enclosure Material | Easy to clean passivated Stainless Steel |
| Size | 33 W x 55.9 D x 22.9 H cm (13 x 22 x 9 inches) including protrusions, handles, feet, etc. |
| Weight | Without battery: 15.9 kg (35 lbs), Battery: 0.66 kg (1.45 lbs) |
| Environment | Operating 10° to 40°C (50° to 104°F); 10 to 90% relative humidity, non-condensing Storage -40° to 50°C (-40° to 122°F); 10 to 90% relative humidity, non-condensing |
| Optional Accessories | Smart Battery Charger/Calibrator: PN 280-300-5000 Additional Battery: PN 280-120-2024 |

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In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time.

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the experience and
expertise you need.**

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of service centers and certified
agents in the industry. This global
network offers on-site service and
calibration support as well as local
bench service facilities.*

*At Hach, we provide coverage for
every aspect of your investment
from installation and calibration
to data analysis and audits.*

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