Our new MET ONE 3400+ Series Portable Airborne Particle Counter features automated integrated electronic SOPs and sampling maps that reduce training requirements—and sampling errors.
**Customized Electronic SOP Maps**
Using a web-browser interface, load your SOP map into the counter, mark sample locations, and define SOP requirements for each.

**Interactive Tracking**
Onscreen instructions help operators navigate your map and perform sampling according to the SOP. Location icons turn green after sampling, making it easy to track progress at a glance. Managers can review daily monitoring progress including all sample results and alarms, via a web browser.

**Automated SOP Version Control**
To simplify SOP changes/updates, administrators use a web-based tool to approve each updated SOP via electronic signature. Changes are automatically replicated across all instruments.

**Review and Approve**
Supervisors can log-on to the instrument via a web-browser to review sampling results, alarms and comments and approve the final electronic record, attaching their electronic signature.

**Secure Electronic Records**
An electronic signature is attached to all approved final reports, which can then be exported in secure electronic format.

**Barcode Function (optional)**
Connect a barcode reader to automatically capture sample location, production batch ID and more.

**Plug-n-Play Networking**
All instruments automatically create a network, which minimizes involvement of your IT department.

**Sampling Options**
Available in 1 ft³/min, 50 L/min and 100 L/min versions. The MET ONE 3400+ can sample 1 m³ in as little as 10 minutes.

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1. Configure network
2. Choose LDAP settings including Active Directory
3. SOP version control inside the counter
4. Confirm all changes using built-in audit trail
5. Review and approve monitoring results via web-browser
Simplified, secure data management eases audits

The MET ONE 3400+ helps you manage accurate cleanroom monitoring data via safe and secure internal software and web access—there’s no external software needed. All data is encrypted, and users are never permitted to delete records.

And because it uses Microsoft Active Directory for Username and Password Control for log-on and electronic signatures, it supports 21 CFR Part 11 compliance and ALCOA guidance.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributable</td>
<td>Multi-level, Microsoft Active Directory Username and Password control creates unique electronic signatures for users</td>
</tr>
<tr>
<td>Legible records</td>
<td>Legible, secure PDF electronic record export for measurement results</td>
</tr>
<tr>
<td>Contemporaneously created</td>
<td>Secure PDF electronic records created in the counter - no manual data transcription or scanning of paper report</td>
</tr>
<tr>
<td>Original</td>
<td>Original electronic record created directly inside the counter</td>
</tr>
<tr>
<td>Accurate</td>
<td>Your SOPs and sampling maps uploaded into the counter with version control. Completed records reviewed and approved for accuracy in the counter remotely via web-browser. No manual counter configuration or sample location entry</td>
</tr>
</tbody>
</table>

To help you quickly locate data you need during an audit, you can use filters to review multiple parameters, including:

- Date
- User
- Location
- Failed logins
- Action type
- Alert level exceeded

Secure electronic records (Excel or PDF) can be exported directly to your network or to a USB device.

Each record contains:

- SOP version number
- User name
- Location name
- Time
- Date
- Alarms
- Counter configuration
- Sampling results
- Unlimited user defined fields, e.g. production batch ID, or room occupancy state, etc.

Designed for life in your cleanroom

Lighter to carry

At 12.4 lbs (5.6 kg), it’s up to 26% lighter than earlier models.

Easier to use

Sensitive, 10-inch touchscreen enables reliable data entry even when users are double-gloved.

Optional barcode reader expedites data entry and minimizes potential for operator errors.

Quieter

New blower technology helps make the MET ONE 3400+ whisper quiet.

Easier to clean

Because it has a sealed touchscreen and stainless steel case, you can spray cleaners (VHP, bleach, alcohol) directly onto the instrument.

*Weight is without batteries
We live in an interconnected world, but for many GMP regulated devices to share data requires huge software integrations and validation. The MET ONE 3400+ has built-in, secure networking capabilities that are validated out of the box using our IQ / OQ protocols. A lightweight networking protocol securely protected via transport layer security (TLS) in the MET ONE 3400+ interconnects multiple devices and shares configuration and sample data in a secure and compliant manner. Ease the burden on your IT department with the new MET ONE 3400+ air particle counter.

An instrument can be installed into a remote location and fully controlled for sampling via the remote web interface, allowing for central control or remote operation in areas where technicians are not permitted.

### Better networking features

**Machine Groups and Data Replication**

Each MET ONE 3400+ assigned to a machine group will share user configuration, SOP configuration, and sample data to enable any machine in the group to have a complete view of the environmental monitoring status. A lightweight weight protocol connects the instruments to exchange true uniquely identified copies of data and to ensure all instruments are in sync.

**Wireless Connectivity**

The MET ONE 3400+ includes an 802.11b/g wireless interface with full security capability, including enterprise grade 802.11x certificate-based authentication using WPA EAP (PEAP, TLS, and TTLS variants) and WPA2/PSK.

**Network Shares**

Within the MET ONE 3400+, Windows Network Shares can be configured to allow a technician to generate a report and upload it to that directory. Windows authentication controls rights and access to the share using tools already commonly deployed in most enterprises.

**Audit Trail**

A GMP grade audit trail is included in the instrument, including information on logins, logouts, power events, sampling, electronic signatures, SOP updates, and other critical actions taken on the instrument. Built in filtering and reporting simplifies review and approval of audit events.

### MET ONE 3400+ Specifications

**Particle Counting Performance:**

<table>
<thead>
<tr>
<th>Particle Size</th>
<th>MET ONE 3435+</th>
<th>MET ONE 3431+</th>
<th>MET ONE 3432+</th>
<th>MET ONE 3435+</th>
<th>MET ONE 3431+</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3, 0.5, 1.0, 3.0, 5.0 µm</td>
<td>0.3, 0.5, 1.0, 3.0, 5.0 µm</td>
<td>0.3, 0.5, 1.0, 3.0, 5.0 µm</td>
<td>0.3, 0.5, 1.0, 3.0, 5.0 µm</td>
<td>0.3, 0.5, 1.0, 3.0, 5.0 µm</td>
<td></td>
</tr>
<tr>
<td>0.45 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.75 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td>100% ±10% for 0.3 µm</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1.0 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.0 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td>100% ±10% for 0.3 µm</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3.0 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.0 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td>100% ±10% for 0.3 µm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Physical and Electrical Specifications

- **AC Power Supply:** Output: 24 VDC, 5.0 A Maximum; Input: 80-264 VAC, 47-63 Hz, 1.2 A Maximum
- **Battery Type and Quantity:** 1 to 3 Li-ion Rechargeable Smart Battery Packs
- **Battery Life (Continuous Sampling):**
  - 1 Battery: 6.25 hours
  - 2 Batteries: 9.75 hours
  - 3 Batteries: 10 hours (with 3 batteries)
- **AC Power Supply:** Output: 24 VDC, 5.0 A Maximum; Input: 80-264 VAC, 47-63 Hz, 1.2 A Maximum
- **Screen:** 10” High Resolution LCD
- **Environmental Probe:** Proprietary DIN port for Relative Humidity and Temperature sensor probe PN 2088928
- **Weight (without battery):** 5.7 kg (12.6 lbs)
- **Weight (with 2 batteries):** 6.75 kg (14.9 lbs)
- **Dimensions:** 26.7 cm W x 26 cm H x 21 cm D (10.5” x 10” x 8.25”)
- **Storage Temperature and Humidity:** -20 to 50 degree C (-4 to 122 F), 0 to 98% relative humidity, non-condensing
Ordering information

Each part number includes the instrument, 2 batteries, power supply, ISO probe and stand, 10 feet of tubing, and a cleaning brush. C38687 includes 3 batteries.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Sample Flow Rate</th>
<th>Minimum Particle Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C38675</td>
<td>APC, Port, MET ONE 3413+</td>
<td>28.3 LPM</td>
<td>0.3 μm</td>
</tr>
<tr>
<td>C38678</td>
<td>APC, Port, MET ONE 3415+</td>
<td>28.3 LPM</td>
<td>0.5 μm</td>
</tr>
<tr>
<td>C38681</td>
<td>APC, Port, MET ONE 3423+</td>
<td>50 LPM</td>
<td>0.3 μm</td>
</tr>
<tr>
<td>C38684</td>
<td>APC, Port, MET ONE 3425+</td>
<td>50 LPM</td>
<td>0.5 μm</td>
</tr>
<tr>
<td>C38687</td>
<td>APC, Port, MET ONE 3445+</td>
<td>100 LPM</td>
<td>0.5 μm</td>
</tr>
</tbody>
</table>

*not available in EU

Interested in talking to someone? Visit www.beckman.com/contact-us

Learn more about MET ONE solutions at beckman.com/metone

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