

# MODEL 804

# MANUAL



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## Copyright Notice

Model 804 Manual

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### NOTICE



**CAUTION**—Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



**WARNING**—This product, when properly installed and operated, is considered a Class I laser product. Class I products are not considered to be hazardous.

**There are no user serviceable parts located inside the cover of this device.**

**Do not attempt to remove the cover of this product. Failure to comply with this instruction could cause accidental exposure to laser radiation.**

## Table of Contents

<b>1. Introduction .....</b>	<b>3</b>
<b>2. Setup .....</b>	<b>3</b>
2.1. Unpacking.....	3
2.2. Layout.....	5
2.3. Default Settings .....	5
2.4. Initial Operation .....	6
<b>3. User Interface .....</b>	<b>6</b>
<b>4. Operation .....</b>	<b>6</b>
4.1. Power Up.....	6
4.2. Sample Screen.....	6
4.3. Sampling.....	8
<b>5. Settings Menu.....</b>	<b>8</b>
5.1. View Settings.....	9
5.2. Edit Settings.....	10
<b>6. Serial Communications .....</b>	<b>12</b>
6.1. Connection .....	12
6.2. Commands .....	13
6.3. Real Time Output .....	14
6.4. Comma Separated Value (CSV) .....	14
<b>7. Maintenance .....</b>	<b>14</b>
7.1. Charging the Battery.....	14
7.2. Service Schedule.....	14
7.3. Flash Upgrade .....	15
<b>8. Troubleshooting.....</b>	<b>15</b>
<b>9. Warranty / Service Information .....</b>	<b>16</b>
9.1. Warranty .....	16
9.2. Service.....	16
<b>10. Specifications.....</b>	<b>17</b>
<b>11. Electrical &amp; Safety Conformity .....</b>	<b>18</b>

## 1. Introduction

The Model 804 is a small lightweight four channel hand held particle counter. Key features include:

- Simple user interface with multifunction rotary dial (rotate and press)
- 8 hours continuous operation
- 4 count channels. All channels are user selectable to 1 of 7 preset sizes: (0.3 $\mu$ m, 0.5 $\mu$ m, 0.7 $\mu$ m, 1.0 $\mu$ m, 2.5 $\mu$ m, 5.0 $\mu$ m and 10 $\mu$ m)
- Concentration and total count modes
- 2 favorite display sizes
- Password protection for user settings

## 2. Setup

The following sections cover unpacking, layout and performing a test run to verify operation.

### 2.1. Unpacking

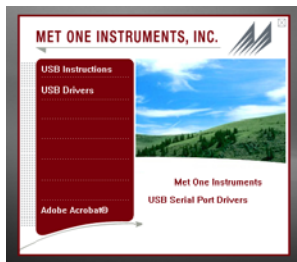
When unpacking the 804 and accessories, inspect the carton for obvious damage. If the carton is damaged notify the carrier. Unpack everything and make a visual inspection of the contents. Standard items (included) are shown in Figure 1 – . Optional accessories are shown in Figure 2 – Optional Accessories.

#### **ATTENTION:**

The included USB driver CD must be installed before connecting the 804 USB port to your computer. If the supplied drivers are not installed first, Windows may install generic drivers that are not compatible with this product. See section 6.1.

#### To install USB drivers:

Insert the USB Drivers CD. The install program should run automatically and display the screen below. If an AutoPlay pop-up window appears, select “Run AutoRun.exe”. Finally, select “USB Drivers” to start the install process.



### Model 804 Standard Accessories



**Figure 1 – Standard Accessories**

### Model 804 Optional Accessories



**Figure 2 – Optional Accessories**

## 2.2. Layout

The following figure shows the layout of the Model 804 and provides a description of the components.



Component	Description
Display	2X16 character LCD display
Keyboard	2 key membrane keypad
Rotary dial	Multifunction dial (rotate and press)
Charger Jack	Input jack for external battery charger. This jack charges the internal batteries and provides continuous operating power for the unit.
Flow Adjust	Adjusts the sample flow rate
Inlet Nozzle	Sample nozzle
USB Port	USB communication port

## 2.3. Default Settings

The 804 comes with the user settings configured as follows.

Parameter	Value
Sizes	0.3, 0.5, 5.0, 10 $\mu\text{m}$
Favorite 1	0.3 $\mu\text{m}$
Favorite 2	OFF
Sample Location	1
Sample Mode	Manual
Sample Time	60 seconds
Count Units	CF

## 2.4. Initial Operation

The battery should be charged for 2.5 hours prior to use. Refer to Section 7.1 of this manual for batter charging information.

Complete the following steps to verify proper operation.

1. Press the Power key for 0.5 seconds or more to turn on power.
2. Observe the Startup screen for 3 seconds then the Sample screen (Section 4.2)
3. Press Start / Stop key. The 804 will sample for 1 minute and stop.
4. Observe the counts on the display
5. Rotate the Select dial to view other sizes
6. The unit is ready for use

## 3. User Interface

The 804 user interface is composed of a rotary dial, 2 button keypad and a LCD display. The keypad and rotary dial are described in the following table.

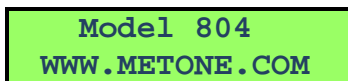
Control	Description	
Power Key	Power the unit on or off. For power on, press for 0.5 seconds or more.	
Start / Stop Key	Sample Screen	START / STOP a sample event
	Settings Menu	Return to Sample screen
	Edit Settings	Cancel edit mode and return to the Settings Menu
Select Dial	Rotate the dial to scroll through selections or change values. Press the dial to select item or value.	

## 4. Operation

The following sections cover the basic operation of Model 804.

### 4.1. Power Up

Press the Power key to power up the 804. The first screen shown is the Startup Screen (Figure 4). The Startup Screen displays the product type and company website for approximately 3 seconds before loading the Sample Screen.



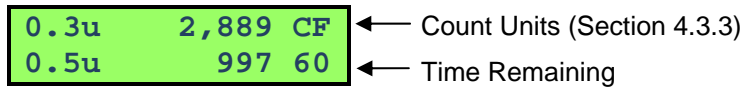
**Figure 4 – Startup Screen**

#### 4.1.1. Auto Power Off

The 804 will power down after 5 minutes to preserve battery power providing the unit is stopped (not counting) and there is no keyboard activity or serial communications.

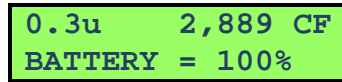
### 4.2. Sample Screen

The Sample Screen displays sizes, counts, count units, and time remaining. The time remaining is displayed during sample events. The Sample Screen is shown in Figure 5 below.



**Figure 5 – Sample Screen**

Channel 1 (0.3 $\mu$ ) or Favorite 1 (see Section 4.2.1) are displayed on Sample Screen Line 1. Rotate the Select dial to display channels 2-4 and battery status on line 2 (Figure 6).



**Figure 6 – Battery Status**

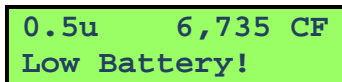
#### 4.2.1. Favorites

Use Favorites in the Settings Menu to select one or two favorite display sizes. This eliminates the need to scroll the display when monitoring two non-adjacent sizes. You can view or change Favorites in the Settings menu (Section 5).

#### 4.2.2. Warnings / Errors

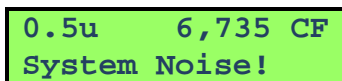
The 804 has internal diagnostics to monitor critical functions such as low battery, system noise and an optical engine failure. Warnings / errors are displayed on Sample Screen Line 2. When this occurs, simply rotate the Select dial to view any size on the top line.

A low battery warning occurs when there is approximately 15 minutes of sampling remaining before the unit stops sampling. A low battery condition is shown in Figure 7 below.



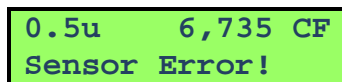
**Figure 7 – Low Battery**

Excessive system noise can result in false counts and reduced accuracy. The 804 automatically monitors system noise and displays a warning when the noise level is high. The primary cause of this condition is contamination in the optical engine. Figure 7 shows the Sample screen with a System Noise warning.



**Figure 8 – System Noise**

A sensor error is reported when the 804 detects a failure in the optical sensor. Figure 9 shows a sensor error.



**Figure 9 –Sensor Error**



### 4.3. Sampling

The following sub-sections cover sample related functions.

#### 4.3.1. Starting/Stopping

Press the START/STOP key to start or stop a sample from the Sample Screen. Depending on the sample mode, the unit will either run a single sample or continuous samples. Sample modes are discussed in Section 4.3.2.

#### 4.3.2. Sample Mode

The sample mode controls single or continuous sampling. The Manual setting configures the unit for a single sample. The Continuous setting configures the unit for nonstop sampling.

#### 4.3.3. Count Units

The 804 supports total counts (TC), particles per cubic foot (CF) and particles per liter (/L). Concentration values (CF, /L) are time dependent. These values may fluctuate early in the sample; however, after several seconds the measurement will stabilize. Longer samples (e.g. 60 seconds) will improve concentration measurement accuracy.

#### 4.3.4. Sample Time

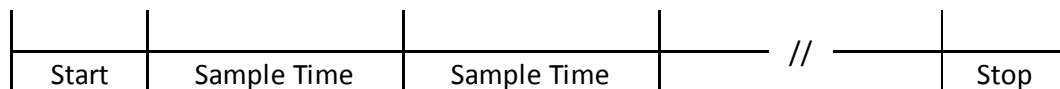
Sample time determines the sample duration. Sample time is user settable from 3 to 60 seconds and is discussed in Sample Timing below.

#### 4.3.5. Sample Timing

The following figures depict the sample timing sequence for both manual and continuous sampling. Figure 10 shows the timing for manual sample mode. Figure 11 shows the timing for continuous sample mode. The Start section includes a 3 second purge time.



**Figure 10 – Manual Sample Mode**



**Figure 11 – Continuous Sample Mode**

## 5. Settings Menu

Use the Settings Menu to view or change configuration options.

## 5.1. View Settings

Press the Select dial to navigate to the Settings Menu. Rotate the Select dial to scroll through the settings in the following table. To return to the Sample screen, press Start/Stop or wait 7 seconds.

The Settings menu contains the following items.

Function	Description
LOCATION	Assign a unique number to a location or area. Range = 1 - 999
SIZES	The 804 has four (4) programmable count channels. The operator can assign one of seven preset sizes to each count channel. Standard sizes: 0.3, 0.5, 0.7, 1.0, 2.5, 5.0, 10.
FAVORITES	This feature eliminates the need to scroll the display when monitoring two non-adjacent sizes. See Section 4.2.1.
MODE	Manual or Continuous. The Manual setting configures the unit for a single sample. The Continuous setting configures the unit for nonstop sampling.
COUNT UNITS	Total Count (TC), Particles / cubic foot (CF), particles / L (/L). See Section 4.3.3.
HISTORY	Display previous samples. See Section 5.1.1
SAMPLE TIME	See Section 4.3.4. Range = 3 - 60 seconds
TIME	Display / enter time. Time format is HH:MM:SS (HH = Hours, MM = Minutes, SS = Seconds).
DATE	Display / enter date. Date format is DD/MMM/YYYY (DD = Day, MMM = Month, YYYY = Year)
FREE MEMORY	Display the percentage of memory space which is available for data storage. When Free Memory = 0%, the oldest data will be overwritten with new data.
PASSWORD	Enter a four (4) digit numeric number to prevent unauthorized changes to the user settings.
ABOUT	Display model number and firmware version

### 5.1.1. View Sample History

Press the Select dial to navigate to the Settings Menu. Rotate the Select dial to the History selection. Follow the steps below to view sample history. To return to the Settings Menu, press Start/Stop or wait 7 seconds.

<b>Press to View HISTORY</b>	Press Select to view history.
------------------------------	-------------------------------

30/MAR/2011 L001 10:30:45 #2500	804 will display the last record (Date, Time, Location, and Record Number). Rotate dial to scroll through records. Press to view record.
0.3u 2,889 CF 0.5u 997 60 5.0u 15 60 10u 5 60 Location 001 DATE 30/MAR/2011 TIME 10:30:45 Low Battery!	Rotate dial to scroll through record data (counts, date, time, alarms). Press Start/Stop to return to previous screen.

## 5.2. Edit Settings

Press the Select dial to navigate to the Settings Menu. Rotate the Select dial to scroll to the desired setting then press the Select dial to edit the Setting. A blinking cursor will indicate edit mode. To cancel edit mode and return to the Settings Menu, press Start/Stop.

Edit mode is disabled when the 804 is sampling (see below).

Sampling... Press Stop Key	Screen displayed for 3 seconds then return to Settings Menu
-------------------------------	-------------------------------------------------------------

### 5.2.1. Password Feature

The following screen is displayed if you attempt to edit a setting when the password feature is enabled. The unit will remain unlocked for a period of 5 minutes after a successful password unlock code is entered.

Press to Enter UNLOCK ####	Press Select to enter Edit mode. Return to Sample screen if no Select key in 3 seconds
Rotate and Press UNLOCK 0###	Blinking cursor indicates Edit mode. Rotate dial to scroll value. Press dial to select next value. Repeat action until last digit.
Rotate and Press UNLOCK 0001	Rotate dial to scroll value. Press dial to exit Edit Mode.
Incorrect Password!	Screen displayed for 3 seconds if the password is incorrect.

### 5.2.2. Edit Location Number

Press to Change LOCATION 001	View screen. Press Select to enter Edit mode.
Rotate and Press LOCATION 001	Blinking cursor indicates Edit mode. Rotate dial to scroll value. Press dial to select next value. Repeat action until last digit.
Rotate and Press LOCATION 001	Rotate dial to scroll value. Press dial to exit Edit Mode and return to view screen.

### 5.2.3. Edit Sizes

Press to View CHANNEL SIZES	Press Select to view Sizes.
Press to Change SIZE 1 of 4 0.3μ	Sizes view screen. Rotate dial to view channel sizes. Press dial to change setting.
Rotate and Press SIZE 1 of 4 0.5μ	Blinking cursor indicates Edit mode. Rotate dial to scroll values. Press dial to exit Edit mode and return to view screen.

### 5.2.4. Edit Favorites

Press to View FAVORITES	Press Select to view Favorites.
Press to Change FAVORITE 1 0.3μ	Favorites view screen. Rotate dial to view Favorite 1 or Favorite 2. Press dial to change setting.
Rotate and Press FAVORITE 1 0.3μ	Blinking cursor indicates Edit mode. Rotate dial to scroll value. Press dial to exit Edit mode. Return to view screen.

### 5.2.5. Edit Sample Mode

Press to Change MODE CONTINUOUS	View screen. Press Select to enter edit mode.
Rotate and Press MODE CONTINUOUS	Blinking cursor indicates Edit mode. Rotate dial to toggle value. Press dial to exit Edit mode and return to view screen.

### 5.2.6. Edit Count Units

Press to Change COUNT UNITS CF	View screen. Press Select to enter edit mode.
Rotate and Press COUNT UNITS CF	Blinking cursor indicates Edit mode. Rotate dial to toggle value. Press dial to exit Edit mode and return to view screen.

### 5.2.7. Edit Sample Time

Press to Change SAMPLE TIME 60	View screen. Press Select to enter Edit mode.
Rotate and Press SAMPLE TIME 60	Blinking cursor indicates Edit mode. Rotate dial to scroll value. Press dial to select next value.
Rotate and Press SAMPLE TIME 10	Rotate dial to scroll value. Press dial to exit Edit Mode and return to view screen.

### 5.2.8. Edit Time

Press to Change TIME 10:30:45	View screen. Time is real time. Press Select to enter edit mode.
Rotate and Press TIME 10:30:45	Blinking cursor indicates Edit mode. Rotate dial to scroll values. Press dial to select next value. Repeat action until last digit.
Rotate and Press TIME 10:30:45	Last digit. Rotate dial to scroll values. Press dial to exit Edit mode and return to view screen.

### 5.2.9. Edit Date

Press to Change DATE 30/MAR/2011	View screen. Date is real time. Press Select to enter edit mode.
Rotate and Press DATE 30/MAR/2011	Blinking cursor indicates Edit mode. Rotate dial to scroll values. Press dial to select next value. Repeat action until last digit.
Rotate and Press DATE 30/MAR/2011	Rotate dial to scroll values. Press dial to exit Edit mode and return to view screen.

### 5.2.10. Clear Memory

Press to Change FREE MEMORY 80%	View screen. Available memory. Press Select to enter edit mode.
Press and Hold to Clear Memory	Hold Select dial for 3 seconds to clear memory and return to view screen. Return to view screen if no action for 3 seconds or key hold time is less than 3 seconds.

### 5.2.11. Edit Password

Press to Change PASSWORD NONE	View screen. #### = Hidden password. Press Select to enter Edit mode. Enter 0000 to disable password (0000 = NONE).
Rotate and Press PASSWORD 0000	Blinking cursor indicates Edit mode. Rotate dial to scroll value. Press dial to select next value. Repeat action until last digit.
Rotate and Press PASSWORD 0001	Rotate dial to scroll value. Press dial to exit Edit Mode and return to view screen.

## 6. Serial Communications

Serial communications, firmware field upgrades and real time output are provided via the USB port located on the side of the unit.

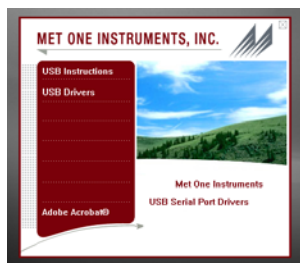
### 6.1. Connection

#### ATTENTION:

The included USB driver CD must be installed before connecting the 804 USB port to your computer. If the supplied drivers are not installed first, Windows may install generic drivers that are not compatible with this product.

#### To install USB drivers:

Insert the USB Drivers CD. The install program should run automatically and display the screen below. If an AutoPlay pop-up window appears, select "Run AutoRun.exe". Finally, select "USB Drivers" to start the install process.



#### Note:

For proper communication, set the virtual COM port baud rate to 38400

## 6.2. Commands

The 804 provides serial commands for accessing stored data and settings. The protocol is compatible with terminal programs such as Windows HyperTerminal.

The unit returns a prompt ('>') when it receives a carriage return to indicate a good connection. The following table lists the available commands and descriptions.

SERIAL COMMANDS		
<u>Protocol Summary:</u> <ul style="list-style-type: none"><li>• 38,400 Baud, 8 Data bits, No Parity, 1 Stop Bit</li><li>• Commands (CMD) are UPPER or lower case</li><li>• Commands are terminated with a carriage return &lt;CR&gt;</li><li>• To view setting = CMD &lt;CR&gt;</li><li>• To change setting = CMD &lt;SPACE&gt; &lt;Value&gt; &lt;CR&gt;</li></ul>		
CMD	Type	DESCRIPTION
?,H	Help	View the help menu
1	Settings	View the settings
2	All data	Returns all available records.
3	New data	Returns all records since last '2' or '3' command.
4	Last data	Returns the last record or last n records (n = <Value>)
D	Date	Change date. Date is format is MM/DD/YY
T	Time	Change time. Time format is HH:MM:SS
C	Clear data	Displays a prompt for clearing the stored unit data.
S	Start	Start a sample
E	End	Ends a sample (abort the sample, no data record)
ST	Sample time	View / change the sample time. Range 3-60 seconds.
ID	Location	View / change the location number. Range 1-999.
CS w x y z	Channel Sizes	View / change channel sizes where w=Size1, x=Size2, y=Size3 and z=Size4. Values (w x y z) are 1=0.3, 2=0.5, 3=0.7, 4=1.0, 5=2.5, 6=5.0, 7=10
SM	Sample mode	View / change sample mode. (0=Manual, 1=Continuous)
CU	Count units	View / change count units. Values are 0=CF, 1=/L, 2=TC
OP	Op Status	Replies OP x, where x is "S" Stopped or "R" Running
RV	Revision	View Software Revision
DT	Date Time	View / change date and time. Format = DD-MM-YY HH:MM:SS

### 6.3. Real Time Output

The Model 804 outputs real time data at the end of each sample. The output format is a comma separated values (CSV). The following sections show the format.

### 6.4. Comma Separated Value (CSV)

A CSV header is included for multiple record transfers like Display All Data (2) or Display New Data (3).

#### CSV Header:

Time, Location, Period, Size1, Count1, Size2, Count2, Size3, Count3, Size4, Count4, Units, Status

#### CSV Example Record:

31/AUG/2010 14:12:21,  
001,060,0.3,12345,0.5,12345,5.0,12345,10,12345,CF,000<CR><LF>

Note: Status bits: 000 = Normal, 016 = Low Battery, 032 = Sensor Error, 048 = Low battery and Sensor Error.

## 7. Maintenance

**WARNING:** There are no user serviceable components inside this instrument. The covers on this instrument should not be removed or opened for servicing, calibration or any other purpose except by a factory-authorized person. To do so may result in exposure to invisible laser radiation that can cause eye injury.

### 7.1. Charging the Battery

To charge the battery, connect the battery charger module AC power cord to an AC power outlet and the battery charger DC plug to the socket on the side of the 804. The universal battery charger will work with power line voltages of 100 to 240 volts, at 50/60 Hz. The battery charger LED indicator will be Red when charging and Green when fully charged. A discharged battery pack will take approximately 2.5 hours to fully charge.

There is no need to disconnect the charger between charging cycles because the charger enters a maintenance mode (trickle charge) when the battery is fully charged.

### 7.2. Service Schedule

Although there are no customer serviceable components, there are service items which ensure the proper operation of the instrument. Table 1 shows the recommended service schedule for the 804.

Item To Service	Frequency	Done By
Flow rate test	Monthly	Customer or Factory Service
Zero test	Optional	Customer or Factory Service
Inspect pump	Yearly	Factory service only
Test battery pack	Yearly	Factory service only
Calibrate Sensor	Yearly	Factory service only

**Table 1 Service Schedule**

### 7.2.1. Flow Rate Test

The sample flow rate is factory set to 0.1cfm (2.83 lpm). Continued use can cause minor changes in flow which can reduce measurement accuracy. A flow calibration kit is available separately that includes everything needed to test and adjust the flow rate.

To test the flow rate: connect the flow meter to the inlet nozzle, start a sample, and note the flow meter reading. The flow rate should be 0.10 CFM (2.83 LPM)  $\pm 5\%$ .

If the flow is not within this tolerance, it can be adjusted by a trim pot located in an access hole in the side of the unit. Turn the adjustment pot clockwise to increase the flow and counter-clockwise to decrease the flow.

### 7.2.1. Zero Count Test

The 804 automatically monitors system noise and displays a System Noise warning when the noise level is high (see Section 4.2.2). This diagnostic reduces the necessity for an inlet filter zero count test. However, a zero count kit can be purchased separately if desired.

### 7.2.2. Annual Calibration

The 804 should be sent back to Met One Instruments yearly for calibration and inspection. Particle counter calibration requires specialized equipment and training. The Met One Instruments calibration facility uses industry accepted methods such as ISO and JIS.

In addition to calibration, the annual calibration includes the following preventative maintenance items to reduce unexpected failures:

- Inspect filter
- Inspect / clean optical sensor
- Inspect pump and tubing
- Cycle and test the battery

### 7.3. Flash Upgrade

Firmware can be field upgraded via the USB port. Binary files and the flash program must be provided by Met One Instruments.

## 8. Troubleshooting

**WARNING:** There are no user serviceable components inside this instrument. The covers on this instrument should not be removed or opened for servicing, calibration or any other purpose except by a factory-authorized person. To do so may result in exposure to invisible laser radiation that can eye injury.

The following table covers some common failure symptoms, causes and solutions.



Symptom	Possible Cause	Correction
Low battery message	Low battery	Charge battery 2.5 hrs
System noise message	Contamination	1. Check inlet screen 2. Blow clean air into nozzle (low pressure, do not connect via tubing) 3. Send to service center
Sensor error message	Sensor failure	Send to service center
Does not turn on, no display	1. Dead battery 2. Defective Battery	1. Charge battery 2.5 hrs 2. Send to service center
Display turns on but pump does not	1. Low Battery 2. Defective pump	1. Charge battery 2.5 hrs 2. Send to service center
No counts	1. Pump stopped 2. Laser diode bad	1. Send to service center 2. Send to service center
Low counts	1. Low flow rate 2. Inlet screen clogged	1. Check flow rate 2. Check inlet screen
High counts	1. High flow rate 2. Calibration	1. Check flow rate 2. Send to service center
Battery pack does not hold a charge	1. Defective battery pack 2. Defective charger module	1. Send to service center 2. Replace charger

## 9. Warranty / Service Information

### 9.1. Warranty

This product, manufactured by Met One Instruments, Inc. is warranted against defects and workmanship for a period of two (2) years from the ship date. Annual calibration and maintenance must be performed per the user manual to keep this warranty in effect.

Any product found to be defective during the warranty period will, at the option of Met One Instruments, Inc., be replaced or repaired. In no case shall the liability of Met One Instruments, Inc. exceed the purchase price of the product.

This warranty may not apply to products that have been subject to misuse, negligence, accident, acts of nature, or that have been altered or modified other than by Met One Instruments, Inc. Consumable items such as filters, bearings pumps and batteries are not covered under this warranty.

Other than the warranty set forth herein, there shall be no other warranties, whether expressed, implied or statutory, including warranties of fitness of merchantability.

### 9.2. Service

Any product being returned to Met One Instruments, Inc. for service, repair or calibration, including items sent for warranty repair, must be assigned a return authorization (RA) number. Please call (541) 471-7111 or send an email to [service@metone.com](mailto:service@metone.com) requesting an RA number and shipping instructions.

All returns must be shipped to the factory, freight pre-paid. Met One Instruments, Inc. will pay the shipping charge to return the product to the end user after repair or replacement of an item covered by warranty.

All instruments sent to the factory for repair or calibration must be free of contamination resulting from sampling chemicals, biological matter, or radioactive materials. Any items received with such contamination will be disposed and the customer will be billed a disposal fee.

Replacement parts or service/repair work performed by Met One Instruments, Inc. are warranted against defects in material and workmanship for a period of ninety (90) days from the date of shipment, under the same conditions as stated above.

## 10. Specifications

### Features:

Size Range:	0.3 to 10.0 microns
Count Channels:	4 channels preset to 0.3, 0.5, 5.0 and 10.0 $\mu\text{m}$
Size Selections:	0.3, 0.5, 0.7, 1.0, 2.5, 5.0 and 10.0 $\mu\text{m}$
Accuracy:	$\pm 10\%$ to traceable standard
Concentration Limit:	3,000,000 particles/ $\text{ft}^3$
Flow Rate:	0.1 CFM (2.83 L/min)
Sampling Mode:	Single or Continuous
Sampling Time:	3 – 60 seconds
Data Storage:	2500 records
Display:	2 line by 16-character LCD
Keyboard:	2 button with rotary dial
Status Indicators:	Low Battery
Calibration	NIST, JIS

### Measurement:

Method:	Light scatter
Light Source:	Laser Diode, 35 mW, 780 nm

### Electrical:

AC Adapter/Charger:	AC to DC module, 100 – 240 VAC to 8.4 VDC
Battery Type:	Li-ion rechargeable Battery
Battery Operating Time:	8 hours continuous use
Battery Recharge Time:	2.5 hours typical
Communication:	USB Mini B Type

### Physical:

Height:	6.25" (15.9 cm)
Width:	3.63" (9.22 cm)
Thickness:	2.00" (5.08 cm)
Weight	1.74 lbs – 28 ounces – (0.79 kg)

### Environmental:

Operating Temperature:	0° C to +50° C
Storage Temperature:	-20° C to +60° C

## 11. Electrical & Safety Conformity

The manufacture certifies that this product operates in compliance with following standards and regulations:

- FDA / CDRH This product is tested and complies with 21 CFR, Subchapter J, of the health and Safety Act of 1968.
- European Community (CE) Directive 72/23/EEC  
EN 61010-1 (Safety)
- IEC 60825-1 Ed.1.1 (1998-01)
- EN 60825-1 W/A11 (1996)
- US 21 CFR 1040.10

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# CE Declaration of Conformity CE

## CE MARKING

**Manufacturers Name:** Met One Instruments, Inc.

**Declares, that the product(s):**

**Product Names:** Particulate Monitor, Aerosol Mass Monitor, Particle Counter

**Model Numbers:** GT-321, GT-321-1, GT-331, GT-521, BT-637, 804

**Product Options:** All

**Are in compliance with the following documents:**

<b>EMC:</b>	Emissions:	CISPR 11:1990 / EN 61326-1
	Immunity:	EN50082-1 / EN 61326-1



Tom Pottberg  
President  
April 13, 2007



### Contact :

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