



The SecureAire AQM-100 Quick Start Guide



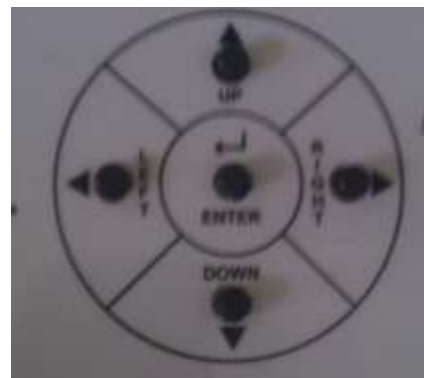
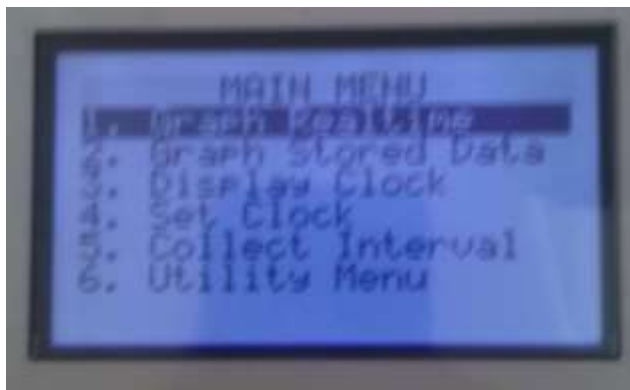
The SecureAire AQM-100 Quick Start Guide was written to lead you through the simple process of setting up your Air Quality Monitor and to begin the process of taking particle measurements in your targeted space of interest. The AQM-100 was designed to be a very easy to use air quality monitor that measures two critical particle sizes (0.4 and 2.5 microns) that helps to quantify the air quality of your indoor environment.

The AQM is menu driven. (4 Simple steps to activation.)

STEP 1: Plug in the AQM into a regular wall outlet.

The LCD screen turns on and the Main Menu is displayed.

STEP 2: First navigate down the Main Menu screen (using the buttons on the right) to the Set Clock, Press enter.





A submenu appears and you can see the time and date.

The cursor highlights the hour position of the time. Use the up/down, right/left and enter buttons to set the time and date. When finished press enter.



The clock set response is shown and the AQM goes back to the main menu.

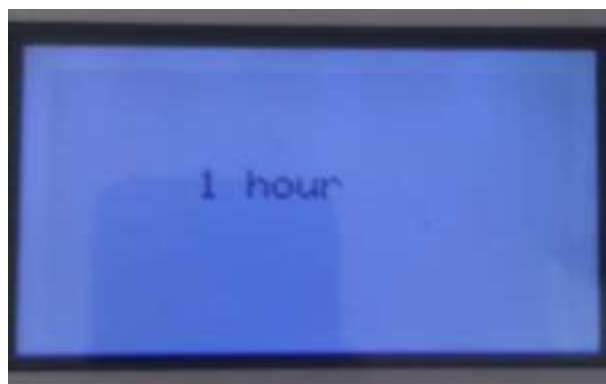
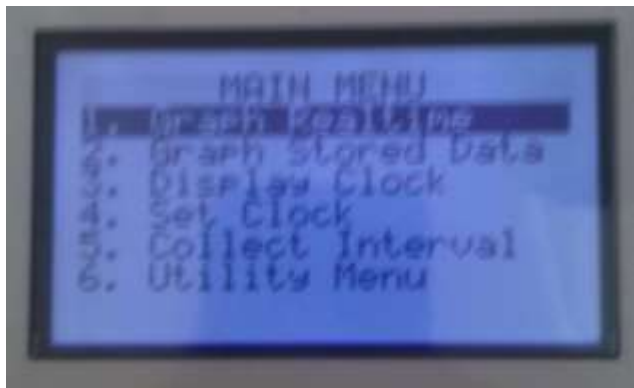
STEP 3: Setting the Collect Interval.

This Collect Interval determines how often the AQM count should be placed in the AQM's memory storage. The intervals are the average AQM values for minute, hour, or four-hour period average counts. (For continuous operation usually the hour or four hour mode is chosen.)

In minute mode the AQM can store up to 4662 minutes, or three days. The data must then be downloaded and the memory erased. (This mode is used for studies where you want to see trends in real time.)

In hour mode, the most commonly used mode, used for day-to-day particle monitoring, the AQM can store over six months worth of data before downloading is required.

In 4 hour mode the AQM stores over four years worth of data before downloading is required!



- A. First move down the screen to the Collection Interval, Press enter.**
- B. Using the up/down buttons choose the desired collect interval.**
- C. When finished press enter.**
- D. The Main Menu appears on the LCD.**

STEP 4: Now we are ready to collect realtime particle data.

In the main Menu go to Graph Realtime, press enter.

A graphic display appears on the LCD and you are collecting data.

The graph shows the small and large particle counts (0.4 micron and 2.5 micron respectively). It also plots the data every minute. Even if you are collecting in hour or four hour mode the plot shows data every minute.



The actual number of particles per cubic foot of air (x100) is shown below the plot.



In the above LCD example, there are 124,600 (0.4 micron) particles and 7,100 (2.5 micron) particles per cubic foot of air in the room environment.

The plot shows a sharp increase in particles due to an event that occurred in the room to increase particles drastically.

The date and time of the last particle count is also displayed.

Now you are collecting data and are comfortable operating the AQM-100.

Additional Menu Options: The Utility Menu has a sub-menu that allows you to adjust the screen contrast, backlight levels, erase data in memory, display the serial ID of the AQM 100, and shows the amount of available memory left in EEPROM.

It also allows you to enter an IP address for Ethernet communications.

For more information on how to use the full capabilities of the AQM-100, including the AQM-100 Software package with Data Downloading, please refer to the AQM Users Manual.

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