# AccuFIT9000

# Application Software

User's Manual



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# 1. General Overview

# **Overview of System**

This Software creates database(s) used in AccuFIT 9000 and AccuFIT 9000 PRO

Quantitative Fit Test instruments (hereinafter referred to as the "Device(s)") and enables remote operation of the Device using the communication function.

# **System Requirements**

Operating Systems: English, French, Spanish, Portuguese, Chinese, Japanese

Windows® 7/8/8.1/10 32-bit or 64-bit

**.NET Framework:** .NET Framework 3.5 or higher **USB:** An available USB port on your PC is required.

**Ethernet**: Required if LAN used. (To install .NET Framework3.5, Ethernet may

be necessary.) Wi-Fi: Not required.

# 2. How to set up for measurements using communication function

The remote (computer-based) operation using communication function involves the following steps:

- 1) Use the provided CD-ROM, USB Memory Stick, or Download from <a href="https://www.Accutec.com/support/">www.Accutec.com/support/</a> to install the application software and USB device driver. (See 3. Installation)
- 2) Start the installed software to perform the initial setting.
- 3) Turn on AccuFIT9000.
- 4) For the USB connection, connect AccuFIT9000 to your PC with a USB cable. Once the USB device driver which is installed in step 1 is detected, communication function is enabled. If you cannot operate the Device using the USB cable connection, go to 6. Connecting Device to your PC to install USB device driver.
- 5) For LAN cable or Wi-Fi connections, perform the setup for the communication function. (See <u>6. Connecting Device to your PC)</u>

# 3. Installation

#### **Installation**

When you install the Software on your PC, you must log on with administrator privileges.

#### From CD

- 1) Insert the product CD into a CD/DVD drive. Perform the following actions with File Explorer.
- 2) According to your Windows version, open '32-bit folder' or '64-bit folder' on the product CD.
- 3) Open the Setup. exe file.
- 4) Follow the directions on your screen to install the software.
- 5) Once installed, the AccuFIT9000 is added to the **START** menu.

#### From USB Memory Stick

- 1) Choose 32-Bit or 64-Bit version (to match your computer's operating system.
- 2) Click on **SetupE64**\*for 64-Bit or **SetupE**\* for 32-Bit Version
- 3) Follow installation instructions
- 4) Install the CP210x Driver. (x86 is 32-Bit; X64) is 64-Bit)

#### From AccuTec Website

- 1) Download appropriate software and CP210x Driver.
- 2) Unzip the file and install as above.

#### Uninstall

Go to the Control Panel, and click **Uninstall a program** button.

Select **AccuFIT9000** from your installed programs list, and then click **Uninstall** button.

Follow the on-screen instructions to complete Uninstall.

#### Starting and Exiting the Software

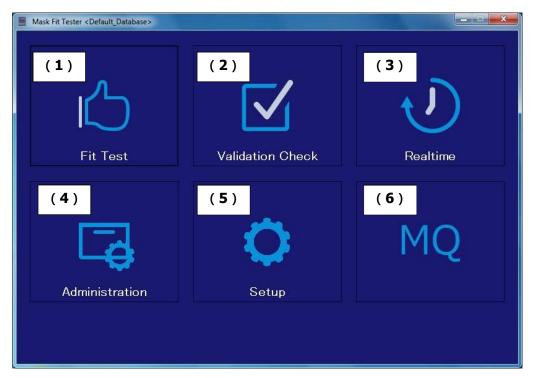
To start the Software, select **AccuFIT9000** on the **START** menu, and then click **AccuFIT9000 Software** button. If you want to create an icon on the desktop, move the cursor to **AccuFIT9000 Software**, hold down the left mouse button, move the icon to the desktop, and release the mouse button.

To exit the Software, click the "X" button on the title bar of the Main screen.

# 4. User Interface

# **Main Screen**

When the Software starts, the Main Screen appears.



(1)	Fit Test	Performs the Respirator Fit Test (hereinafter referred to as "Fit Test").
(2)	Validation Check	Validates the performance of the Device and ambient particle concentration. Perform the Validation Check before using the Device for fit testing. The Validation Check includes Minimum Particle Check, the Zero Check, and the Maximum Fit Factor Check.
(3)	Realtime	Displays the Fit Factor (or if selected) a measurement of the particulate concentration graphically on a real time basis. This function is generally used for training in the use of respirators, determining if a respirator fits well enough to be fit tested, and for troubleshooting. Using this function also allows you to observe changes on a real time basis while wearers who are being trained in the use of the respirator can make adjustments (e.g., adjusting mask straps). Once the wearer and person administering the

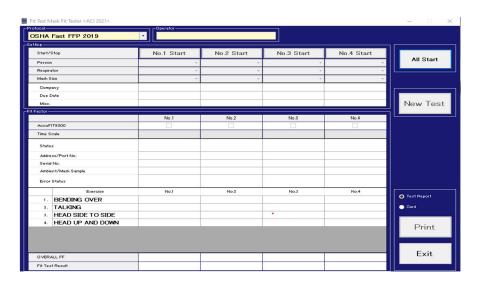
		test are satisfied that the respirator is fitting comfortably, a sufficiently high fit factor can be achieved, and the wearer can don the respirator and achieve the desired results without any help from the test administrator the actual Fit Test can be performed.  N.B.: The purpose of this function is to ensure that persons being tested learn appropriate mask donning and adjustment. Performing this function immediately before the Fit Test is not recommended since the wearer will at that time have been assisted on the optimum procedures. Remember, the purpose of the actual Fit Test is to measure the fit of the respirator in real-world situations. Use this function only for training and practice.
(4)	Administration	This contains the following menus:
		People, Respirators, Protocols, Reports,
		Select Database, and Advanced Database Tools
(5)	Setup	This consists of the following menus:
		Communication Setup, Settings, and Version Info.
(6)	MQ	Directs user to AccuTec.com and On-Line Medical Qualification Software

#### **Fit Test Screen**

This is the screen used to perform the Fit Test.

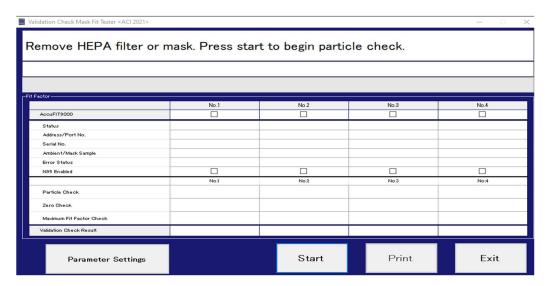
# NOTE:

Four AccuFIT devices may be connected to the same computer. They can be started simultaneously or with individual start/stop times. They must all be using the same Protocol.



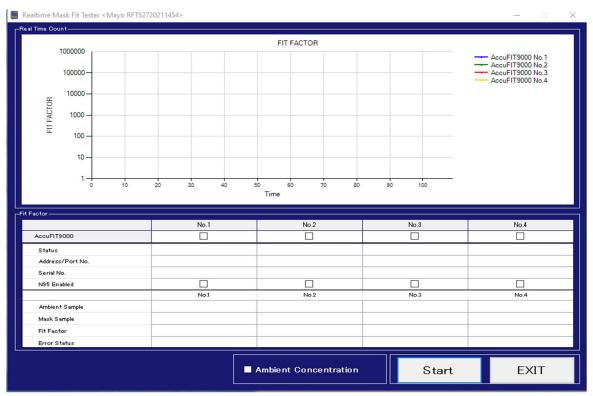
#### **Validation Check Screen**

This is the screen used to perform the Validation Check. Note that if the DMC (N95 mode) is to be used for testing N95 (or other FFP respirators) the "N95 Enabled" box should be checked.



#### **Real Time Screen**

This is the screen used to display a graphic output of the Fit Factor on a real time basis. Selecting the "Ambient Concentration" button enables real time measurement of particulate concentration. Check the "N95 Enabled" box to measure DMC-selected particles.



# **Administration Screen**

This is the screen used to select and/or create database, and print reports.



(7)	People	Confirms and selects the list of people being tested. Enters a new person to database
(8)	Respirators	Confirms and selects the list of respirators Enters a new respirator to database
(9)	Protocols	Confirms and selects the test protocol Enters a new test protocol to database
(10)	Fit Test Reports	Displays the result of completed fit tests
(11)	Select Database	Selects database to load. Creates new Database.
(12)	Toolbox	Sets the advanced mode

# **Setup Screen**

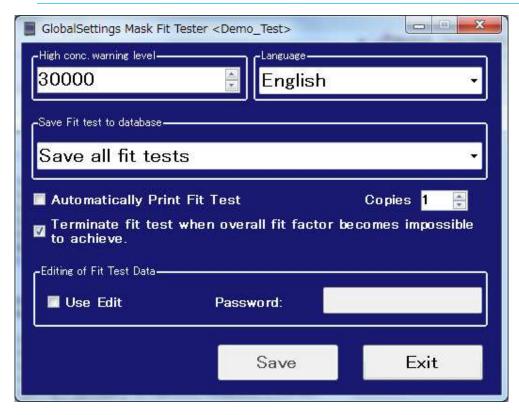
This Setup Screen consists of Communication Setup, Settings and Version Information.



(13)	Communication Setup	Confirms and sets the network environment. You are allowed to set up or change this Communication Setup only when AccuFIT9000 is not connected to your PC. While your PC is connected to AccuFIT9000, you cannot set up or change this Communication Setup. In order to change network settings, you must close the application software and restart the program.
(14)	Settings	Configures the settings for the device
(15)	Version Info	Displays the software information

# 5. Initial Setting

#### **Settings**



#### · High conc. Warning level:

When particle concentration in the ambient environment exceeds the concentration value set in the Validation Check Global Settings, a warning message is displayed. If a high concentration state continues for several hours, the performance of the device may be degraded, and may cause lower count values, resulting in the possibility of failure in the Fit Test and/or the Validation Check. The default setting is 30,000 particles per cc. If count values continuously decrease, recalibration or CNC optical bench cleaning may be necessary. The "Highconc" setting range is between 8000 and 200000 in 1000-step increments.

#### · Save Fit test to database

Set the conditions (in drop box) whether or not you save all results.

Choose **Save all fit tests** to save all results regardless of whether they pass or fail. Choose **Save passed fit tests only** to save only the passed results.

#### Automatically Print Fit Test

Select the **Automatically Print Fit Test** check box in advance to print reports

automatically when the Fit Test is completed. (Be sure to have a printer connected.) If you haven't selected the check box **Automatically Print for Fit Test** in advance, click **Print** button to print reports.

Set up the number of copies of the Fit Test Report. The setting range is 1-4 copies.

#### · Terminate fit test early if a passing overall fit factor is impossible to achieve.

If an exercise fails so badly that it is mathematically impossible to make up the deficit with subsequent exercises it would be a waste of time to continue, and the internal logic can decide to terminate the fit test. Once fit test is terminated, the remaining exercises won't be performed. **NB:** This function does not work with the 2019 Short Protocols.

### · Language

Select language (English, Japanese, Chinese, Español, Français, or Português) to set your language.

# Editing of Fit Test Data (Only in Reports)

If you select **Use Edit** check box in advance, you can edit Last Name, First Name, Middle Name, Emp. ID, Company, and Mask Size when you print Fit Test Reports. If you need a password, enter your password in the Password box. If you uncheck the checkbox, you cannot edit. If you need to permanently edit names, respirators, and Employee ID in the Database, please use the AccuFIT DataManager tool.

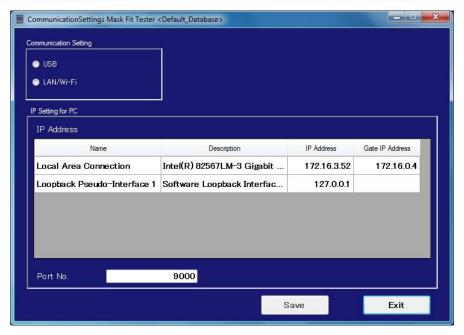
#### · Save

When you change the condition(s), Save button is activated. To apply your new settings, click Save button.

#### · Exit

Click **Exit** button to close the current screen and return to the Setup screen.

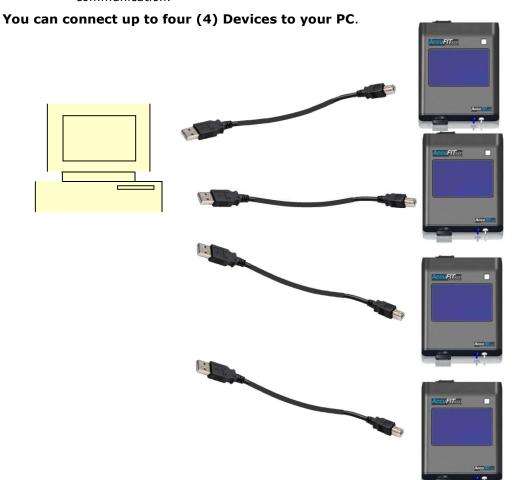
# **Communication Setup**



# · Communication Setting

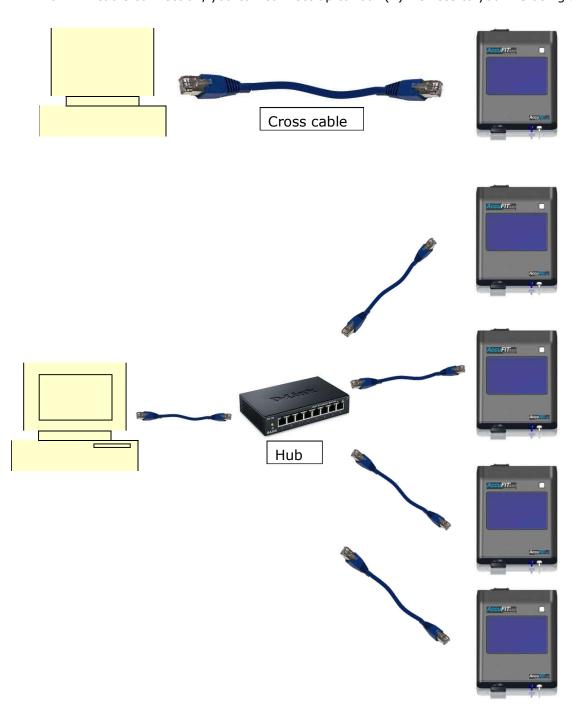
Select a connection method.

Serial USB: Connect the Device to your PC with USB cable(s) to run the system through serial communication.



**LAN:** Connect the Device to your PC with LAN (Ethernet) cable to run the Device through packet communication.

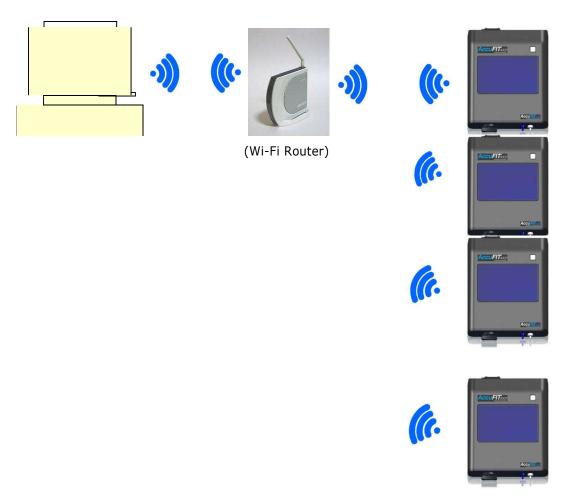
For Direct cross cable connection, you can connect one (1) Device to your PC. For LAN cable connection, you can connect up to four (4) Devices to your PC using a hub.



]

• **Wi-Fi**: Connect the Device to your PC via a router with built in Wi-Fi wireless connection to run the Device through packet communication.

You can connect up to four (4) Devices to your PC.



#### · IP Setting for PC

For LAN or Wi-Fi connection, enter IP Address and Port No. Be sure to enter the same Port No. as the Port No. you entered for the Device.

#### · Save Button

Click **Save** button to save the current displayed settings.

#### · Exit Button

Click **Exit** button to close the current screen and return to the Setup screen.

# 6. Connecting Device to your PC

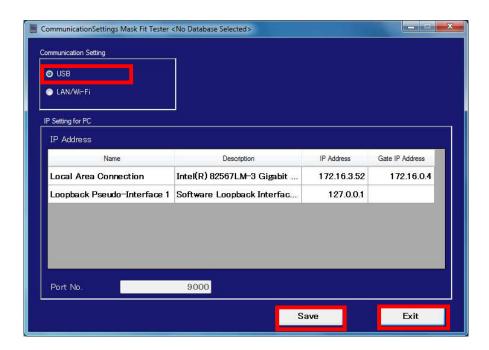
#### **USB Connection**

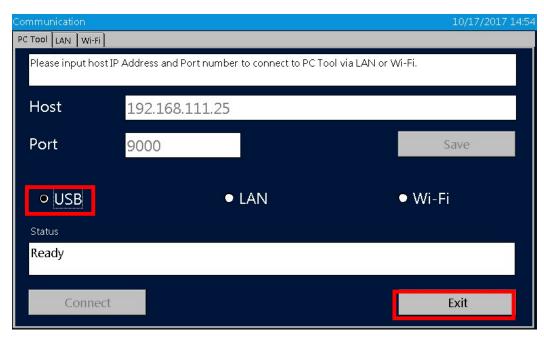
#### Make sure that the CP210x Driver is installed to your PC

- 1) In PC, Open Control Panel and navigate to Programs and Features.
- 2) Scroll down the list of installed programs to make sure that **Windows Driver Package Silicon Laboratories, Inc.** is installed (This is the CP210x Driver)
- 3) In the upper left corner of the screen click on Turn Windows Features On or Off
- 4) Ensure that .NET Framework 3.5 is turned On.
- 5) Close Control Panel.

#### **Test USB Communication with the AccuFIT 9000**

- 1) Connect the AccuFIT 9000 instrument to the computer which has the AccuFIT 9000 software installed and open the software.
- 2) Turn on the AccuFIT 9000 device.
- 3) In the PC software click **Setup** and then **Communication Setup**
- 4) In the upper left corner of the screen be sure that the **USB** radio button is selected.
- 5) Click **Save** and **EXIT**. Click the **Return** arrow to return to the Main Screen.
- 6) On the AccuFIT 9000 instrument tap Setup and then Communication.
- 7) Select the **USB** radio button (it may already be selected) and tap **SAVE**.
- 8) Tap **Connect**, and the device will return to the main screen.
- 9) Go to the computer (which should be on the opening or Main Screen) and click on **Validation Check.**
- 10) The **Address/Port No.** and **Serial No.** fields should populate indicating that communication has been established. If this does not occur, unplug one end of the USB cable and replug it into its USB port.





**AccuFIT9000 Communication Setup Screen** 

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# (1) PC application

Click **Return arrow** icon on the bottom right corner to return the main screen. Fig. PC application

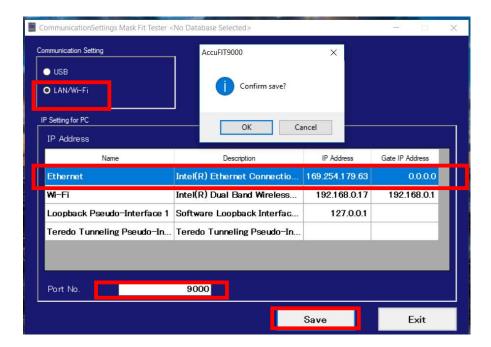
#### **LAN Connection**

# 1. Connecting Device to your PC

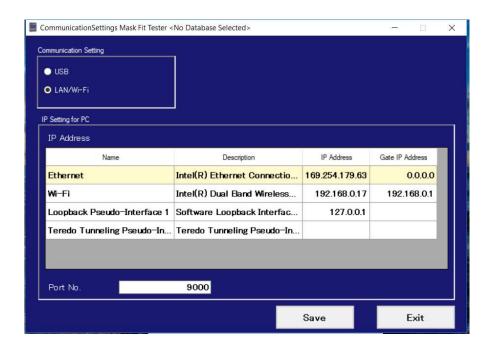
#### (1) PC application setting

Click **Setup > Communication Setup** on your PC.

Select LAN/Wi-Fi in **Communication Setting** box. Next click on "Ethernet" in the list below.



After clicking on "Save" it should be highlighted in yellow.



# (2) AccuFIT9000 setting

Start AccuFIT9000.

Tap **Setup > Communication** on the AccuFIT9000 menu.

Select **LAN** icon on the AccuFIT9000, and then enter IP Address and port number as found in the host (PC) software page above.

Click **Save** button to save the data.

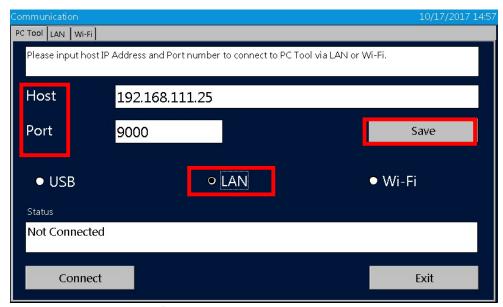


Fig. AccuFIT9000

Tap **LAN tab** at upper left on the AccuFIT9000 and set network information.

When you use DHCP, IP address and other parameters are automatically assigned.

Enter IP address, Subnet mask, Default gateway if you are using a router and the router does not have DHCP turned on. If you are connecting the AccuFIT9000 directly to the PC select the button next to "Obtain an IP address via DHCP"

Tap **save** button to save the data.

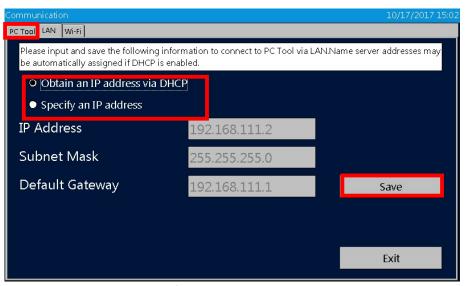


Fig. AccuFIT9000

Then, tap **PC Tool** tab to go to the next step.

# **Return to PC application**

Click **Exit** button to close the Communication setup on your PC.

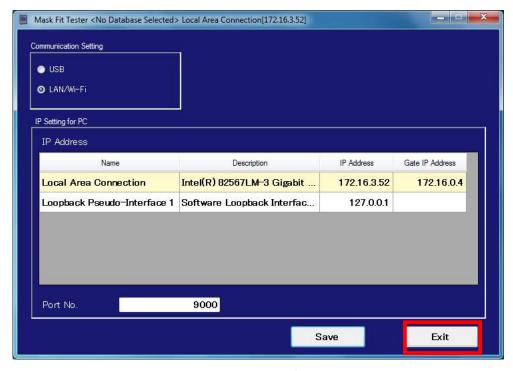


Fig. PC application

And click **Return arrow** icon on the bottom right corner to return the main screen.



Fig. PC application

#### AccuFIT9000

Tap **Connect** button on the AccuFIT9000 menu to establish communication between the AccuFIT9000 and your PC. (It may take several seconds per Device to establish LAN connection.)

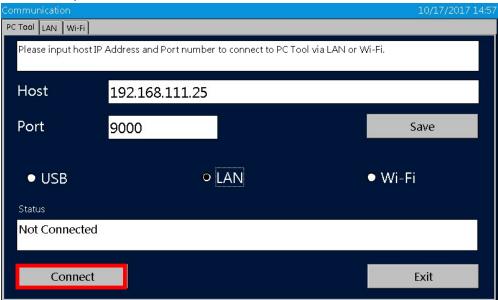


Fig. AccuFIT9000

When you connect another Device, wait for the next display to appear.

You can connect up to four (4) devices to your PC.

If LAN connection isn't working, turn the AccuFIT9000 off, and then turn the AccuFIT9000 on again to restart the above procedure.

#### Wi-Fi Connection

In order to use the built-in Wi-Fi communication between the AccuFIT9000 and a computer you will need to make sure that the following is in place:

- 1. A Wi-Fi-capable computer
- 2. A wireless router (or hotspot with a mobile device)
- 3. Know your SSID (Name of the network you will be using and any password necessary to log-on to the network).
- 4. AccuFit9000 software must be installed on the computer.
- 5. You must ensure that the computer can connect to the network.

# N.B. It is very important to be sure that the following steps are accomplished in the correct sequence:

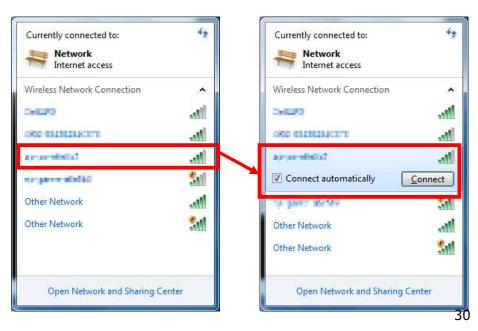
1. Setting up connection to the Wi-Fi router

Turn your PC and the Wi-Fi router on and ensure that the PC is connected to the Wi-Fi network

Click **Network** icon on the taskbar or select "Networking and Sharing Center" in Control Panel



Select and click the network name (SSID) of your Wi-Fi router on the displayed window, and then click **Connect** button.



Enter the Security key in the required field, and then click **OK** button.



Click **Network** icon on the task bar again. The message '**Connected'** will be displayed as shown in the window below if the connection to the Wi-Fi router is completed.



#### 2. Connecting Device to your PC

# (1) PC application setting

Open the AccuFIT9000 software program and Click **Setup > Communication Setup**. Select LAN/Wi-Fi in **Communication Setting** box. Click on "Wireless Network Connection" which will highlight in blue, then click on "Save" at the bottom of the screen and "OK" in the popup. "Wireless Network Connection" should now be highlighted in yellow.

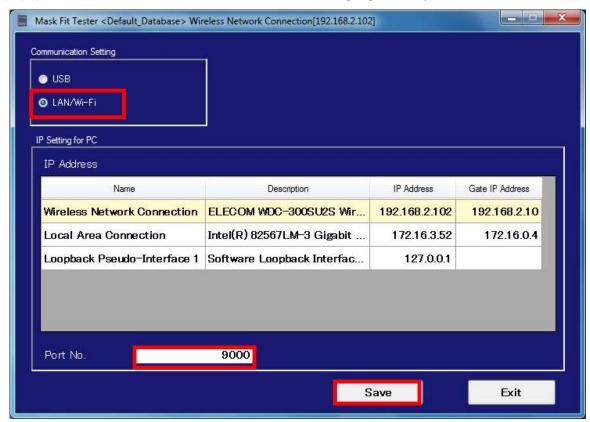


Fig. PC application

#### (2) AccuFIT9000 setting

Start AccuFIT9000.

Tap **Setup > Communication** on the AccuFIT9000 menu.

Select **Wi-Fi** icon on the AccuFIT9000, and then enter IP Address from the PC software (shown above) into the Host field, and Port No. into the Port on the PC Tool tab (upper left of screen).

**N.B.** Be sure to enter the same IP Address and Port No. that you entered on your PC. Click **Save** button to save the data and then "OK" on the pop-up. Now select the Wi-Fi tab (upper left of screen)

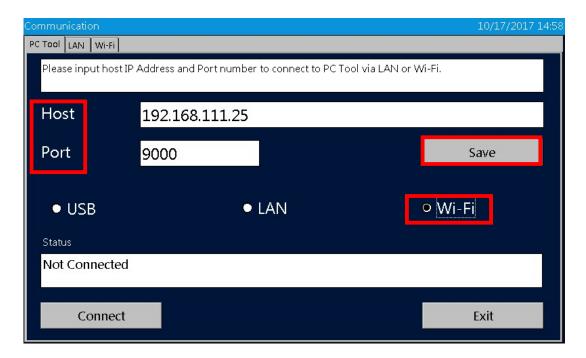


Fig. AccuFIT9000

#### In the Wi-Fi tab on the AccuFIT9000 device- Set network information.

Select SSID (network name) of wireless router you use. If you cannot find it in the drop-down list, tap **search SSID** button.

Select wireless router you use from the drop-down list, and enter Password for the SSID. For details of setting of wireless router, refer to the User Manual of wireless router you use.

If wireless router you use has DHCP function, select **Obtain an IP address via DHCP**.

All required information including IP address is set up automatically.

If wireless router you use doesn't have DHCP function, select **Specify an IP address** to input IP address, Subnet mask and Default gateway.

Tap save button to save the data, then tap **PC Tool** tab to go to the next step.

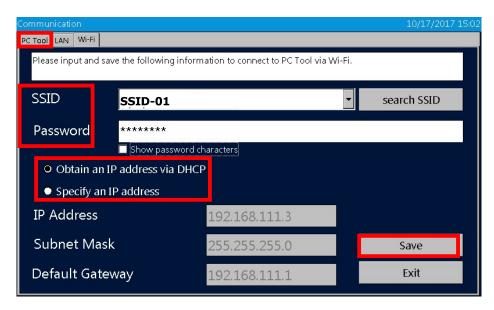


Fig. AccuFIT9000

# Return to PC application

Click **Exit** button to close the Communication setup on your PC...

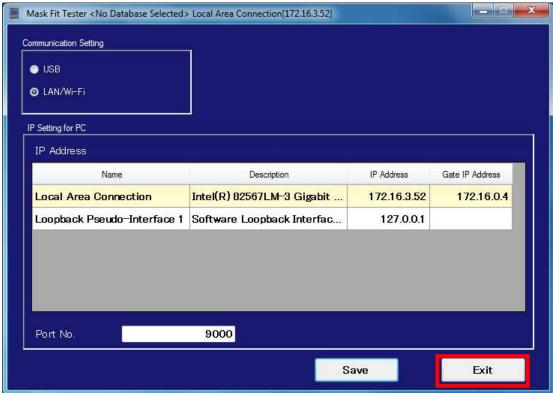


Fig. PC application

...and click **Return arrow** icon on the bottom right corner to return the main screen.

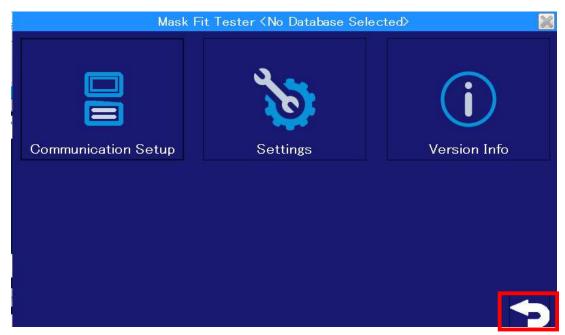


Fig. PC application

#### AccuFIT9000

Tap **Connect** button on the AccuFIT9000 menu to establish communication between the AccuFIT9000 and your PC. (It may take several seconds per Device to establish Wi-Fi connection.)

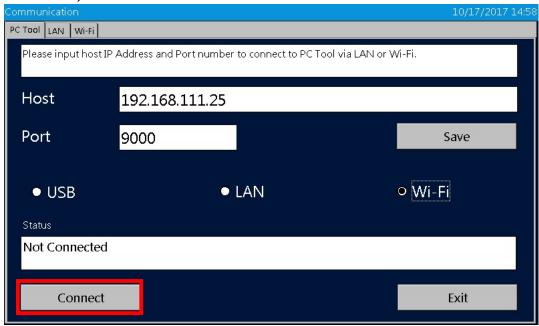


Fig. AccuFIT9000

When you connect another Device, wait for the next display to appear.

When the Wi-Fi connection is established the serial number of the AccuFIT9000 will populate the appropriate line in the Fit Test or Validation screen.

You can connect up to four (4) devices to your PC.

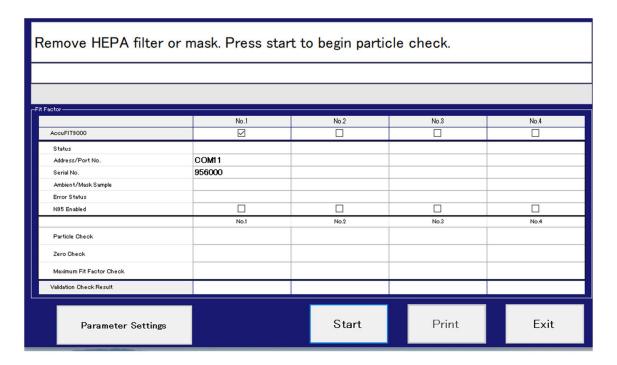
If Wi-Fi connection isn't working, turn off both the AccuFIT9000 and the computer, and then re-boot the computer and turn the AccuFIT9000 on again to restart the above procedure.

# 7. Validation Check

Before beginning a series of Fit Test measurements perform the Particle Check, the Zero Check, and the Maximum Fit Factor Check. (All of these tests are included in the **Validation Check**.)

When you perform the Validation Check using LAN/Wi-Fi connections, you will need to go to the AccuFIT9000 menu, and tap **Setup** > **Communication** to connect the LAN/Wi-Fi connections. For USB connection, the Device is automatically connected.

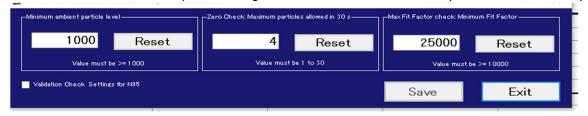
When the device is connected in either communication method, the check box of each AccuFIT9000 in use is checked, and COM number or IP Address is displayed in the Address/Port No. field. The Device's serial number is also displayed in the Serial No. field.



**Please note:** If you are using the PRO instrument in the N95 Mode, you should run the Validation Check with the "N95 Enabled" box checked.

#### **Parameter Settings**

Click **Parameter Settings** to enter the acceptable measurement values for the Validation Check. **Note:** AccuFIT 9000 PRO requires setting in both Normal and N95 Mode (Check box lower left.)



**Minimum ambient particle level:** Enter the minimum acceptable measurement value of the **Particle Check:** This value must be >=1000, or >=30 in the N95 Mode **Note:** This setting also applies to the Fit Test Minimum Particle requirement.

**Zero Check:** Maximum particles allowed in 30sec: Enter the maximum acceptable measurement value of the Zero Check. This value must be 1 to 30.

**Max Fit Factor check:** Minimum Fit Factor: Enter the minimum acceptable measurement value of the Maximum Fit Factor Check. This value must be >=10,000 in Normal Mode and defaults to 200 in N95 Mode.

#### The following assumes that the instrument is operating and Twin Tube Attached

#### Start the Validation Check – the Particle Check

Follow the displayed instructions to remove the HEPA filter from the Sample (clear) line. Click **Start** button to start the Particle Check.

During the Particle Check the progress and results of this check are displayed in the Particle Check field.

When the Particle Check is completed, the Device enters the standby mode and requests that you attach the HEPA filter to the sample (clear) line.

#### Start the Validation Check – the Zero Check and the Maximum Fit Factor Check

Follow the displayed instructions to connect the HEPA filter to the Sample port inlet tube. Click **Start** button to start the Zero Check.

During the Zero Check the progress and results of this check are displayed in the Zero Check field.

When the Zero Check is completed the Maximum Fit Factor Check starts automatically.

During the Maximum Fit Factor Check, the progress and results of this check are displayed in the Maximum Fit Factor Check field.

#### **Interruption of the Validation Check**

When you click **Stop** button during the Validation Check, a dialog box opens asking if you want to stop the check.

Click **OK** button to stop the Check. Click **Cancel** button to continue the Check.

#### **Print Check Results**

After the completion of the Check, you can print the check results.

Click **Print** button to print the reports of check results.

When you select the check box of **Automatic Print** (**Setup** > **Settings** > **Automatic Print**), in advance, the reports are printed automatically when the Check is completed. The Validation Check results are automatically saved to the Database and can be retrieved at any time in the future.

#### **Exit the Validation Check**

Click **Exit** button to return to the Main screen.

# 8. Fit Test

Perform the Fit Test according to the settings.

When you perform the Fit Test using LAN/Wi-Fi connections, go to the Device menu,

tap **Setup** > **Communication**, and establish the LAN/Wi-Fi connection.

For USB connection, the Device is automatically connected.

When the device(s) are connected in either communication method, the check box of each AccuFIT9000 is checked, and COM number or IP Address is displayed in the Address/Port No. field. The Device's serial number is also displayed in the Serial field. The example below shows only one AccuFIT9000 connected to the software.



#### **People New Button**

Click **New** button in the People dropdown menu to add a "person being tested." For input instructions, please refer to **10. Database** > **People** > **NEW Button.** 

### **Respirator New Button**

Click **New** button in the Respirator dropdown menu section to add a "Respirator."

For input instructions, please refer to 10. Database > Respirator > New Button.

# **New Test Button**

Click **New Test** button to refresh People, Respirator, Mask Size and test results.

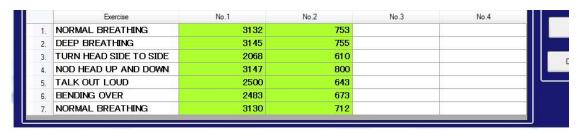
#### Start the Fit Test

Select Protocol, Operator, Person being tested, Respirator, and Mask Size, and then click Start Button at the top of the column. If multiple instruments are connected you can start all of them simultaneously by clicking "All Start" or individually. **Note:** Unless all required data fields are populated the device cannot start the Fit Test.

**Note:** Be sure that the Protocol selected is the proper one for your Respiratory Protection Program requirements. You may wish to delete protocols your program does not use. Once the Fit Test starts, the test is performed in accordance with the selected Protocol. For each exercise, follow the displayed instructions, i.e., Normal Breathing, Deep Breathing, etc. A current status or count values are displayed in the Status field, and the elapsed time is displayed in the Time field.

When each Exercise is completed, the Fit Factor is calculated and the results are displayed with a pass/fail indication.

A "pass" result is shown with green background color, and a "fail" result is shown with red background color.



#### **Interruption of the Fit Test**

If you click **Stop** button during the Fit Test, a dialog box opens asking if you want to stop the Test. Click. **OK** button to stop the Test. Click **Cancel** button to continue the Test.

#### **Print Results**

After the completion of the Fit Test, you can print test results.

Click **Print** button to print the reports of test results.

If you have selected the check box **Automatic Print** (Setup > Settings > Automatic Print) in advance, the reports are printed automatically when the test is completed.

#### **Exit Fit Test**

Click Exit button to return to the Main screen.

# 9. Realtime

This feature displays the fit factor graphically on a real time basis.

This function is generally used for training in the use of respirators, determining whether or not a particular respirator can be fit tested, and for troubleshooting.

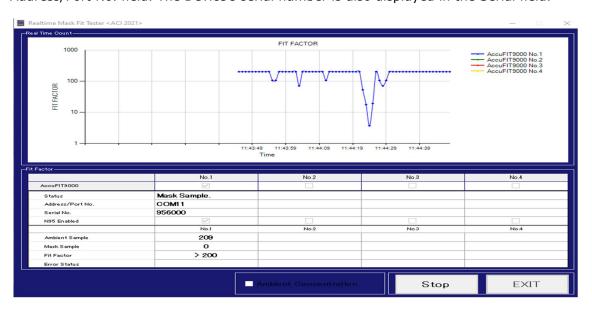
Using this function allows you to confirm fit factor changes on a real time basis as adjustments are made to the respirator. The best way to think of this feature is as a method to provide real-time feedback to the individual who is being trained in the correct methods of donning and wearing the respirator. This feature is not intended to be used as a method to optimize the Fit Factor immediately prior to the actual Fit Test. Bear in mind that the purpose of the Fit Test is to ensure that the respirator being tested and the manner in which it is worn by the user reflect what is actually occurring in the real-world experience.

**NB:** The purpose of this function is for training. Performing this function immediately before the Fit Test is not recommended. Be sure to use this function only for training and practice. The Realtime feature can also be used to determine if a respirator (as worn by the test subject) will provide a sufficiently high fit factor to conduct an actual Fit Test. If this is not the case, another respirator should be provided to the test subject prior to performing the actual Fit Test.

When you perform the Realtime using LAN/Wi-Fi connections, go to the Device menu, tap **Setup** > **Communication**, and establish the LAN/Wi-Fi connection.

For USB connection, the Device will be automatically connected.

When the device is connected in either communication method, the check box of each AccuFIT9000 should be checked, and COM number or IP Address is displayed in the Address/Port No. field. The Device's serial number is also displayed in the Serial field.





Real Time screen showing Ambient Concentration Mode (N95)

### **Ambient Concentration**

When you select the **Ambient Concentration** check box, only the Ambient Sample (blue line) is measured. A graph is displayed showing the Ambient Sample concentration. If you don't select the **Ambient Concentration** check box, the Fit Factor graph is displayed.

### **Start the Real Time Measurement**

To start the Real Time measurement, click **Start** button.

To stop the Real Time measurement, click **Stop** button.

### If you select the **Ambient Concentration** check box

The Ambient Purge is performed, followed by the Ambient Sample, after which the Ambient Sample graph is displayed. The numerical values of the Ambient Sample are also displayed in the Ambient field.

### If you don't select the **Ambient Concentration** check box

The Ambient Purge is performed, followed by the Ambient Sample measurement which is saved in memory and used to calculate the Fit Factor.

The Mask Purge is then performed, followed by the Mask Sample.

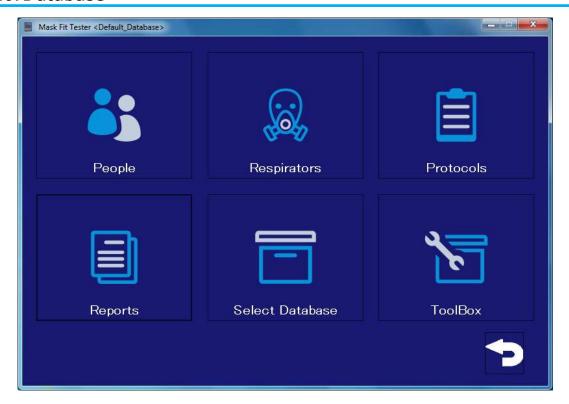
The Person being tested can then see the Fit Factor in a real-time basis graphically.

The numerical value is displayed in each field of the Ambient, Mask and Fit Factor.

### **Exit Real Time**

Click **Exit** button to return to the Main screen.

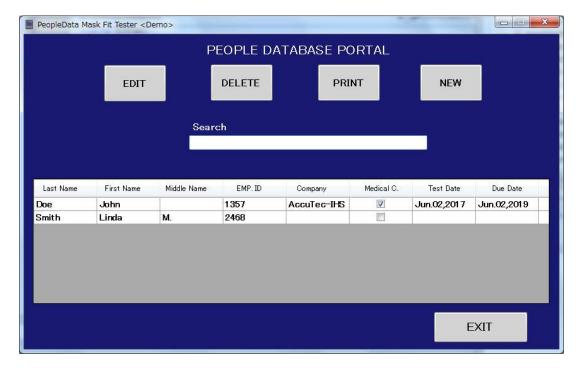
# 10. Database



### People

Enter or edit the information in PEOPLE database.

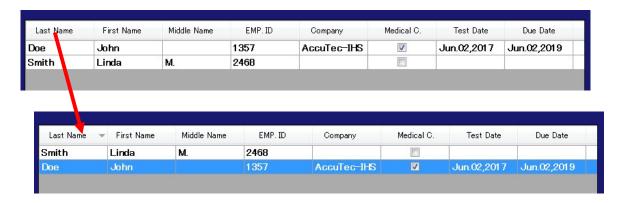
<Note> Use the Enter key for Search function.



### **Sort Function**



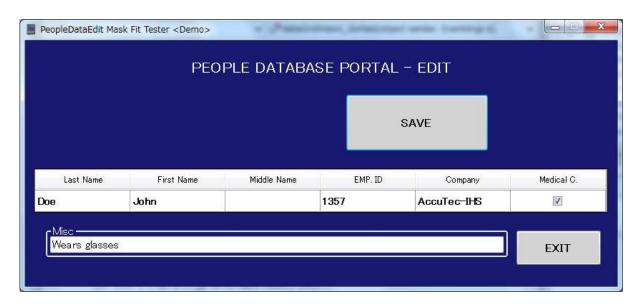
If you click each header of Last Name, First Name, Middle Name, EMP. ID and Company, you can sort data respectively.



### · EDIT Button

Select the person whose data you want to edit, and then click Edit button.

The Edit screen appears.



You can edit or add to the person's data. You cannot edit the Due Date.

You can input the First Name, Middle Name, Last Name, ID Number, and Company.

Required fields are the First Name, Last Name, ID Number, and Company.

Click **SAVE ENTRY** button to save the data.

**CREATE NEW ENTRY** button is to copy the displayed information.

Click **CREATE NEW ENTRY** button to save the new displayed data.

#### · DELETE Button

Select the name of person being tested you want to delete, and then click **DELETE** button. When you click **Delete** button, a dialog box opens asking if you want to delete. Click **OK** or **Cancel** button.

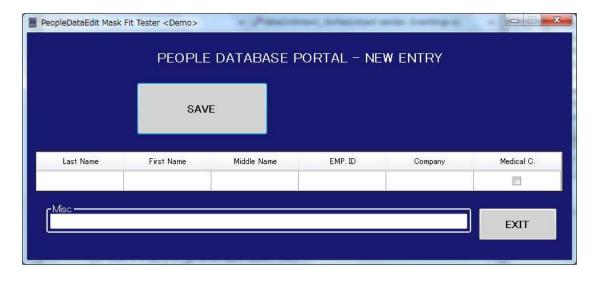
### · PRINT LIST Button

If you click **PRINT LIST** button without selecting anything, all of the data will be printed. If you click **PRINT LIST** button after selecting a person being tested, the information for that person is printed.

(Multiple selections are allowed. Select the persons while holding down the Ctrl key.)

#### · NEW Button

This is a screen for entering a new person in your PEOPLE database.



Enter required information. Required fields are the First Name, Last Name, ID Number and Company.

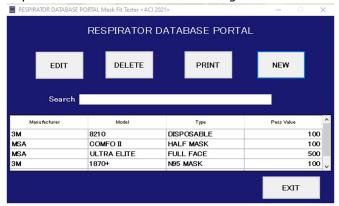
Click **CREATE NEW ENTRY** button to save the new entry.

### · EXIT Button

Click **EXIT** button to close the current screen and return to the DATABASE screen.

### Respirator

Enter a new respirator or edit data for an existing RESPIRATOR.



**Note:** In the **New** Screen, the DMC is invoked by checking the box marked "Filter Efficiency less than 99%. In the PRO system, this is the software switch that tells the instrument that the particle classifier should be used when testing that particular respirator model. (N95 Mode).



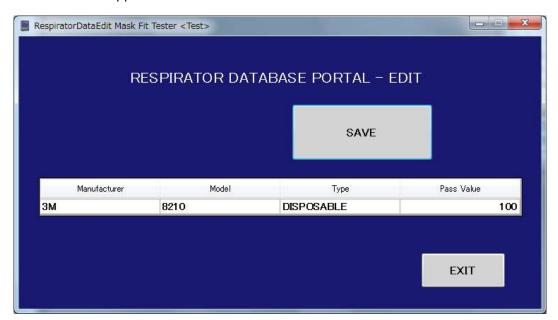
### **Sort Function**



If you click each header of Manufacture, Model and Type, you can sort data respectively.

### · EDIT Button

Select the RESPIRATOR you want to edit, and then click **EDIT** button. The Edit screen appears.



Input data you want to edit. You can edit the Manufacture, Model, Style, and Pass Level. All of these are required fields.

Click **SAVE ENTRY** button to save the data.

### · DELETE Button

Select the RESPIRATOR you want to delete, and then **CLICK** button to delete. When you click **Delete** button, a dialog box opens asking if you want to delete. Click **OK** or **Cancel** button.

### · PRINT LIST Button

If you click **PRINT LIST** button without selecting anything, all RESPIRATOR data will be printed. If you select the RESPIRATOR and click **PRINT LIST** button, the information about the selected RESPIRATOR is printed.

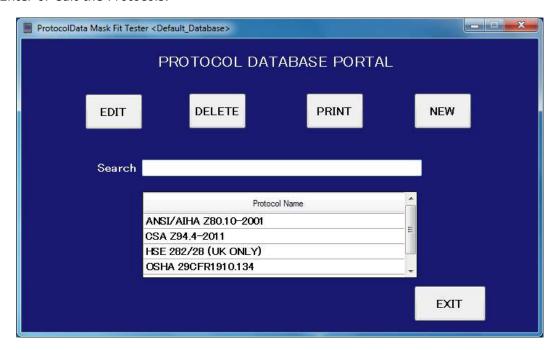
(Multiple selection is allowed. Select the RESPIRATORS while holding down the Ctrl key.)

### · EXIT Button

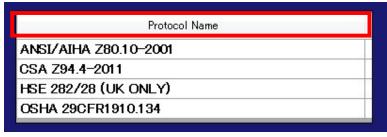
Click **EXIT** button to close the current screen and return to the DATABASE screen.

### **Protocols**

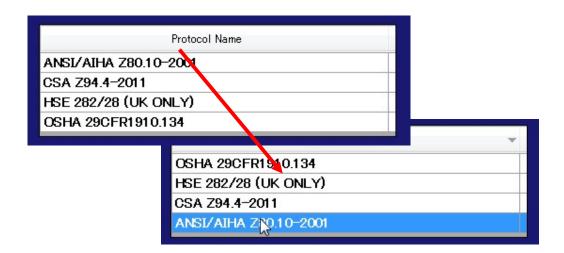
Enter or edit the Protocols.



### **Sort Function**



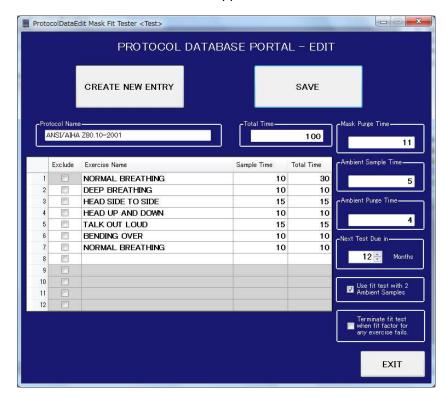
If you click the header of Protocol Name, you can sort the data of Protocol Name.



#### · EDIT Button

Select the PROTOCOL you want to edit, and then click

**EDIT** button. The Edit screen appears.



You can edit or add to the exercises and/or timing.

Click **SAVE ENTRY** button to save the data.

**CREATE NEW ENTRY** button is to copy the displayed information. If you want to create a new protocol by adding or modifying exercises in an existing protocol, and you want to save the existing protocol, select the protocol you wish to use as a template, click on "Edit" box, and rename the protocol shown in the "Protocol Name" box on the next screen (above). Then perform the edits you desire and click "Create New Entry"

Click **CREATE NEW ENTRY** button to save the new displayed data.

#### · DELETE Button

Select the PROTOCOL you want to delete, and then click **DELETE** button. When you click **Delete** button, a dialog box opens asking if you want to delete. Click **OK** or **Cancel** button. This is handy if you will only be using certain protocols, and do not want the other ones to show up in the dropdown menu.

#### · PRINT LIST Button

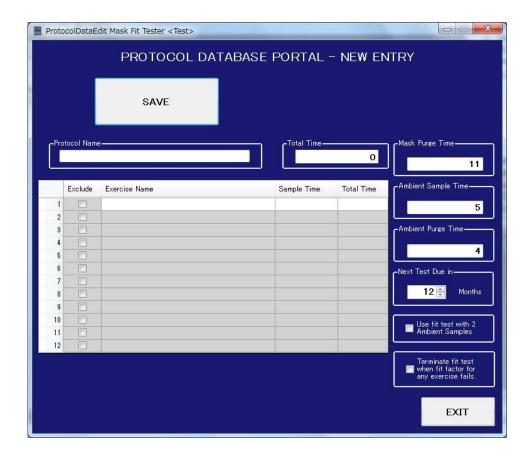
If you click **PRINT LIST** button without selecting anything, all PROTOCOL data will be printed.

If you select the PROTOCOL and click **PRINT LIST** button, the information about the selected PROTOCOL(s) are printed.

(Multiple selection is allowed. Select the PROTOCOLS while holding down the Ctrl key.)

### · NEW Button

This is a screen for entering a new PROTOCOL not using an existing protocol as a template.



Enter required information. The Protocol Name and the Exercise Name on its first line are required fields.

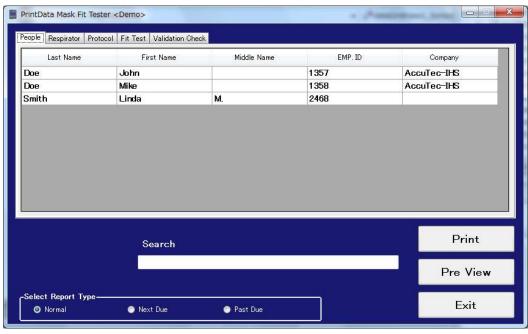
Click **CREATE NEW ENTRY** button to save the new entry.

### · EXIT Button

Click **Exit** button to close the current screen and return to the DATABASE screen.

### **Reports**

You can print each report.

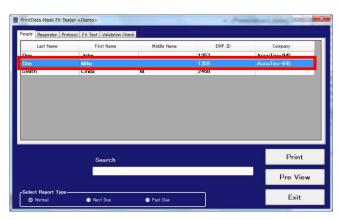


### · People Tab

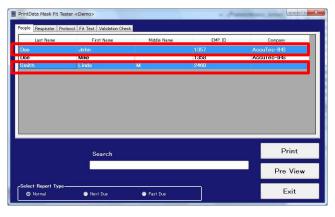
You can print the reports of PEOPLE in the database.

To narrow down the data, enter a Name or part of a Name you are looking for into the **Search** field, and then press **ENTER** key.

Select a line to print the desired information.



Multiple selection is allowed. Select lines while holding down the Ctrl key.



Choose a print report type from the **Normal**, **Next Due** or **Past Due**.

The **Normal** report type is the report of people in the database.

The **Next Due** report type shows upcoming due dates and the people involved.

The **Past Due** report type shows people who are past due for a Fit Test.

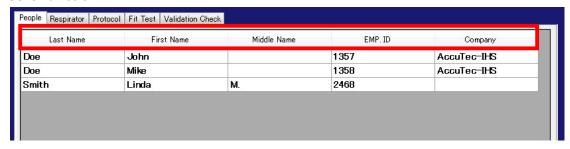
Click **Pre View** button to display the print preview window of the reports of the selected People.

Click **Print** button to print the reports of the selected People.

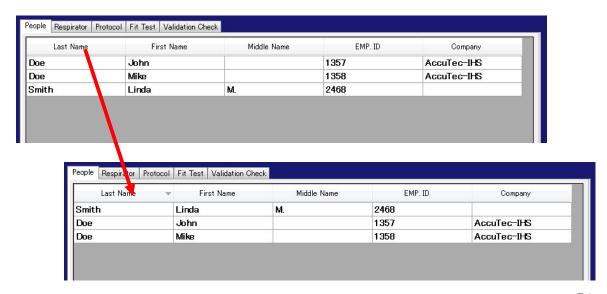
Click **Print** button without selecting anything to print the reports of all the people in the database.

Click **Exit** button to close the current screen and return to the DATABASE screen.

#### **Sort Function**



If you click each header of Last Name, First Name, Middle Name, EMP. ID and Company, you can sort data respectively.

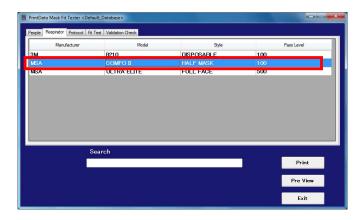


### · Respirator Tab

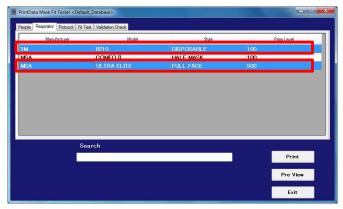
You can print the data entries of the Respirator(s) in your database.

To narrow down the data, enter a Respirator or part of a Respirator name you are looking for into the **Search** field, and then press **ENTER** key.

Select a line to print the desired information.



Multiple selection is allowed. Select lines while holding down the Ctrl key.



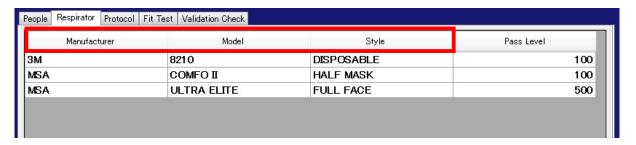
Click **Pre View** button to display the print preview window of the reports of selected Respirator(s).

Click **Print** button to print the reports of the selected Respirator(s).

Click **Print** button without selecting anything to print the reports of all the Respirators in the database.

Click **Exit** button to close the current screen and return to the DATABASE screen.

### **Sort Function**



If you click each header of Manufacture, Model and Style, you can sort data respectively.



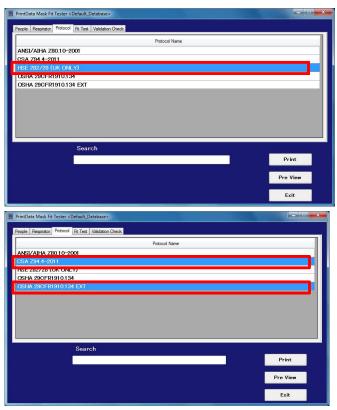
#### · Protocol Tab

You can print the reports of the registered Protocol(s).

To narrow down the data, enter a Protocol name or part of a Protocol name you are looking for into the **Search** field, and then press **ENTER** key.

Select a line to print the desired information.

Multiple selection is allowed. Select lines while holding down the Ctrl key.



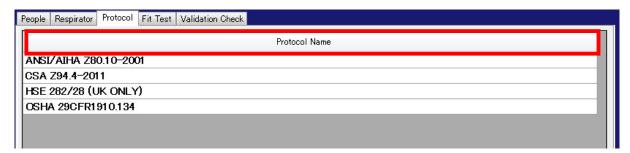
Click **Pre View** button to open the print preview window of the reports of the selected Protocol(s).

Click **Print** button to print the reports of the selected Protocol(s).

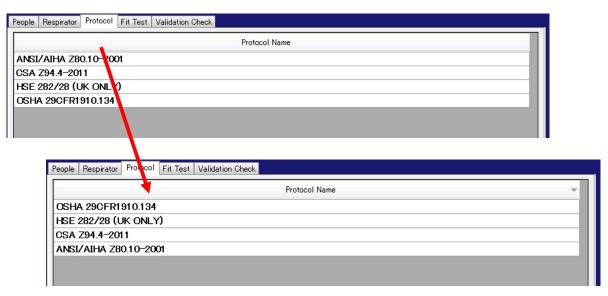
Click **Print** button without selecting anything to print the reports of all the Protocol(s) in the database.

Click **Exit** button to close the current screen and return to the DATABASE screen.

### **Sort Function**



If you click the header of protocol, you can sort the data of Protocol Name.

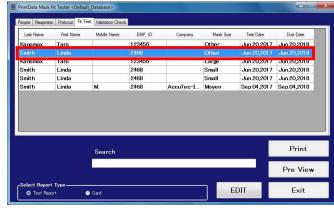


### · Fit Test Tab

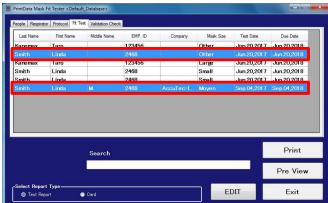
You can print the reports of the completed Fit Test(s).

To narrow down the data, enter a Test Date or part of a Test Date you are looking for into the **Search** field, and then press **ENTER** key.

Select a line to print the desired information.



Multiple selection is allowed Select lines while holding down the Ctrl key.



Choose a print report type: **Fit Test Report** or **Fit Test Card**When you choose **Fit Test Report**, the Fit Test Reports is printed.
When you choose **Fit Test Card**, the Fit Test Card is printed.

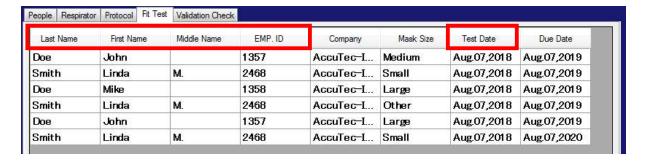
Click **Pre View** button to open the print preview window displaying the reports of the selected Fit Tests(s).

Click **Print** button to print the reports of the selected Fit Test(s).

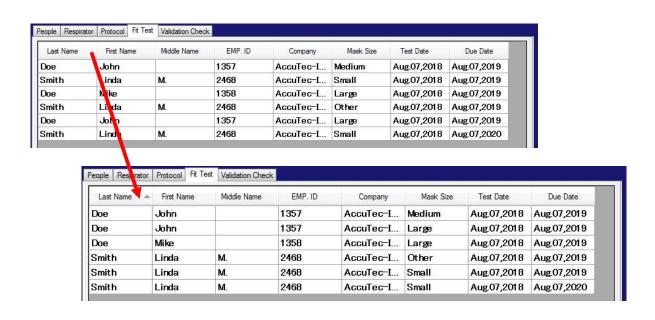
Click **Print** button without selecting anything to print the reports of all the saved Fit Tests in the database.

Click **Exit** button to close the current screen and return the DATABASE screen.

### **Sort Function**

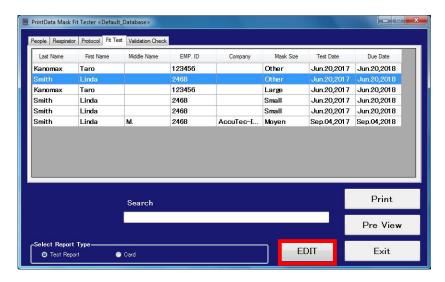


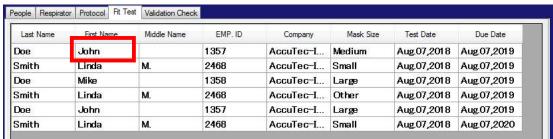
If you click each header of Last Name, First Name, Middle Name, EMP. ID and Company, you can sort data respectively.



### **Editing Function**

If you select the **Editing of Fit Test Data** check box in <u>5. Initial Setting</u> in advance, you can edit Last Name, First Name, Middle Name, EMP.ID, Company and Mask Size.





Double-click an item cell you want to edit, or click **Edit** to open a password input screen. Enter your password and click **OK**.

When an input password coincides with a set password, you can start editing.

(When you have selected the **Editing of Fit Test Data** check box in advance and you haven't set up your password, you can edit as it is. You don't need to open a password input screen.) Once the edit mode is on, the mode is available until you close the **Reports** screen.

### · Validation Check Tab

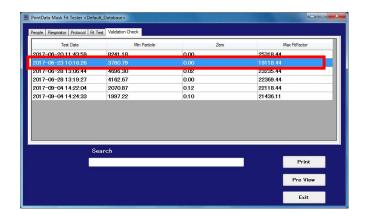
You can print the reports of the completed and saved Validation Check(s).

To narrow down the data, enter a Test Date or part of a Test Date you are looking for into the **Search** field, and then press

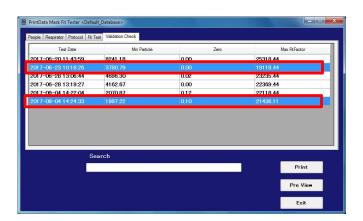


ENTER key.

Select a line to print the desired information.



Multiple selection is allowed. Select lines while holding down the Ctrl key.



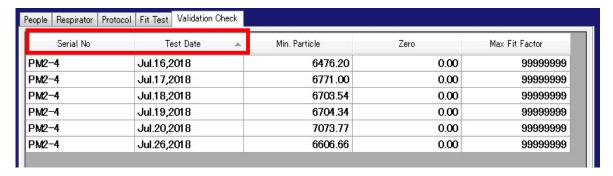
Click **Pre View** button to open the print preview window displaying the reports of the selected Validation Check(s)

Click **Print** button to print the reports of the Validation Check(s).

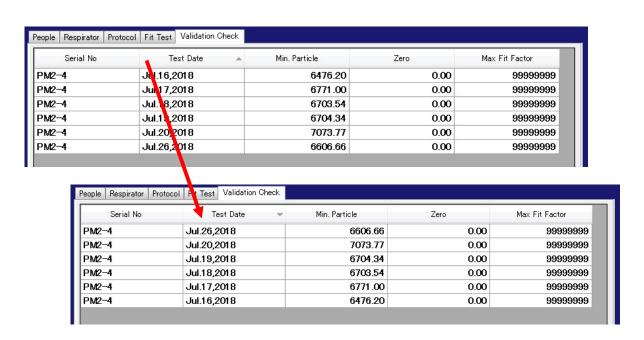
Click **Print** button without selecting anything to print the reports of all the Validation Checks in the database.

Click Exit button to close the current screen and return the DATABASE screen.

#### **Sort Function**



If you click the header of Serial No. and Test Data, you can sort data.



#### **Select Database**

You can select, delete or create a Database.



#### · Load Button

Click Load button to load the selected database on Available Database field.

#### · Delete Button

Click **Delete** button to delete the selected database on **Available Database**. Since this deletes all of the records in the selected database a second pop-up asks you if you want to delete the named database. **N.B. This cannot be undone**, so it is strongly recommended that you back up your database. This can be accomplished in ToolBox. Please refer to appropriate section of this manual.

### · New Button

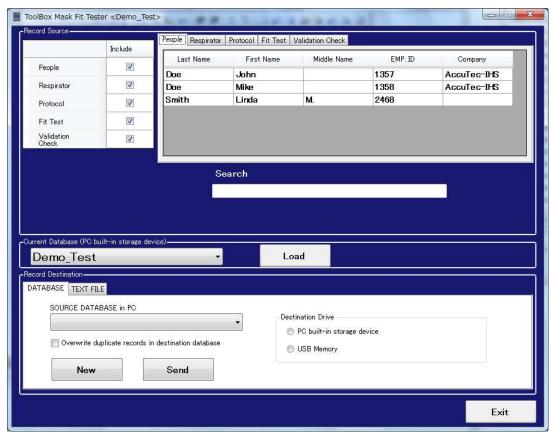
**New** button is to create a new database.

The basic fields are copied (Protocol and Respirators)

### · Exit Button

Click **Exit** button to close the current screen and return the DATABASE screen.

### **ToolBox Tools**



### · Record Source

You can see the saved data inside Database.

A datum selected in the Include is displayed to the right side of the Include check box.



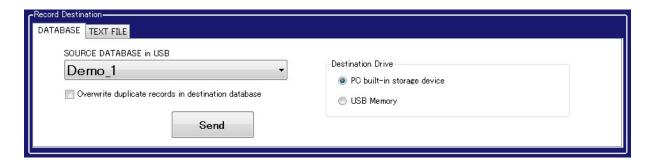
To narrow down the data, enter a word or part of a word you are looking for into the **Search** field, and then press **ENTER** key.

Current Database (PC built-in storage device: typically hard drive)
 Select a Database you want to use, and then click Load button to load and display database you select.

#### · Record Destination

#### <DATABASE Tab>

You can create a new database or copy a database created in this Software so that you can use the copied database (on a thumb drive) in the Device.



To copy a database, select the check box of **Overwrite duplicate record in destination Database**. A database that has the same name in the destination database is overwritten. Use this feature to prepare a thumb drive for use as the data storage device when using the AccuFIT9000 in stand-alone mode.

Select **PC Built-in storage device** (Hard Drive) or **USB Memory** on the **Destination Drive.**When you select **PC Built-in storage device**, you can transfer a database from USB as **DESTINATION DATABASE**.

When you select **USB Memory**, you can transfer a database in your PC to the thumb drive as **DESTINATION DATABASE** 

Select a Database you want to copy in **SOURCE DATABASE.** 

Click "Send" button to copy a selected database to a selected drive.

Click New button to create a new database.

### <TEXT\_FILE>

You can convert a selected database in **Current Database** and a selected tab data in **Record Source** to a text file and save them.



Select a desired separator in **Column delimiter**.

When you select **Custom**, input an optional separator in the input field.

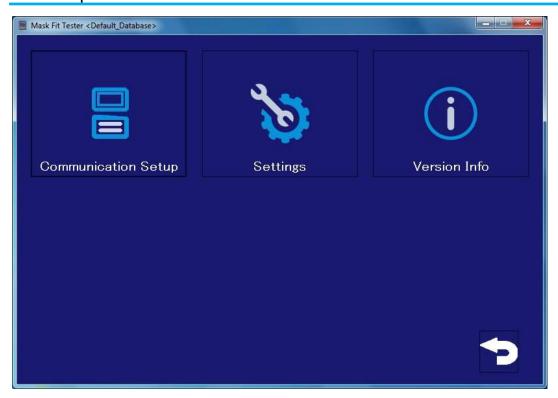
Select character code in **Text encoding** for saving database.

Click **Export** button to Export.

· Exit Button

Click **Exit** button to close the current screen and return to the DATABASE screen.

# 11.Setup



### **Communication Setup**

Refer to 5. Initial Setting

## Settings

Refer to <u>5. Initial Setting</u>

### **Version Info**

Display the Software version information.



# 12. Contact Information



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E-Mail: info@accutec-ihs.com