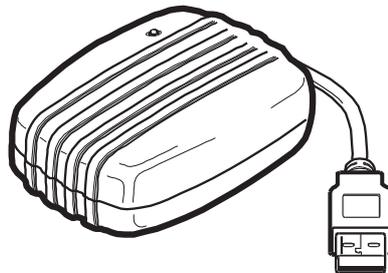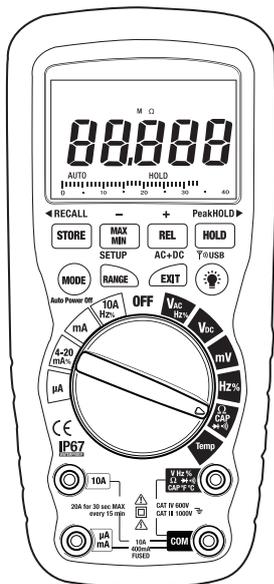# Software Help File

Wireless RMS Multimeter

Introduction

The Multimeter Software is designed to receive, record and graphically present measurement data from a Wireless True RMS Multimeter Model Multimeter by a built in RF transmitter and an RF receiver. Please read this file to assist you in understanding the software features.

System Requirements and Installation

Operating Environment

1. Application Program should be installed in the operation system of Microsoft Windows VISTA/ XP/ 2000 (SP3).

2. USB Driver should be installed.

System Requirements

1. Personal Computer (PC): we recommend the processor of Pentium III Celeron 600MHz or above.

2. *RAM: we recommend 512MB of RAM or more.

3. *Screen resolution: requires 1,024 x 768 pixels.

4. *Multimeter Wireless TRMS Multimeter

5. USB RF Receiver

Hardware Connection

The meter connects wirelessly via the supplied USB

Software Installation

1. Load the software CD into the PC CD-ROM drive.

2. After putting the installation disc into CD-ROM drive, the Application Program will automatically execute the installation.

3. If the installation is not automatically executed, please choose the setup.exe program in the installation disc to perform the installation.

Installing USB Driver

1. Choose the USB Driver Directory in the installation CD. Click CP210x_VCP_Win2K_XP_S2K3.exe (for Windows Vista/ XP/ 2000) to perform the installation of USB Driver Program.

2. Follow instructions and Click "Next" until installation is complete.

3. Restart PC after installation.

Starting the Software

1. Connect the RF receiver to the computer's USB port. Power On the Multimeter.

2. Run the program by opening the program named "Multimeter" or by Clicking on the icon on the desktop

   The Multimeter program will be in the "programs" folder of the Windows software.

Identifying the COM prot

1. Once the USB Driver is successfully installed, check under the Windows Device Manager to see which virtual COM PORT number has been assigned to the device.

2. Go to Start>Control Panel>System>Hardware to identify the port.
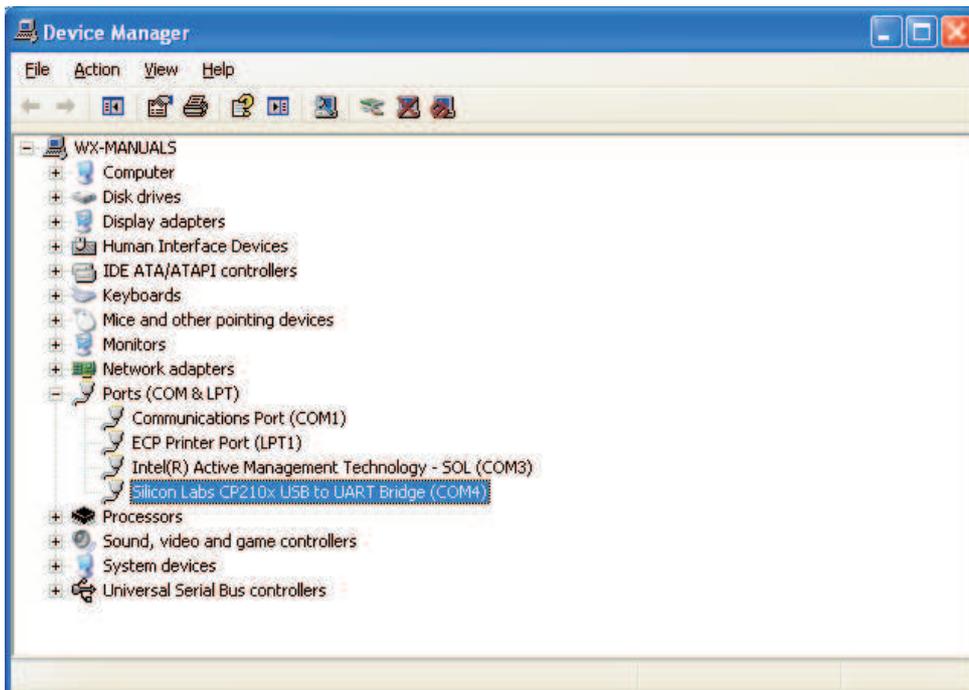
Establishing Communication for Real Time Acquisition

1. Verify the meter is ON and the Rotary Function Switch is in the desired position for the function wished to view and capture.

2. Press and Hold the backlight button for two seconds to enter RF wireless transmit mode.

3. The RF icon ⟨Ƴ⟩⟩⟩ will appear on the display indicating transmit mode is active.

4. From the Multimeter Main Software Screen select the COM PORT to match the number assigned to the device in the device manager via the drop down menu.
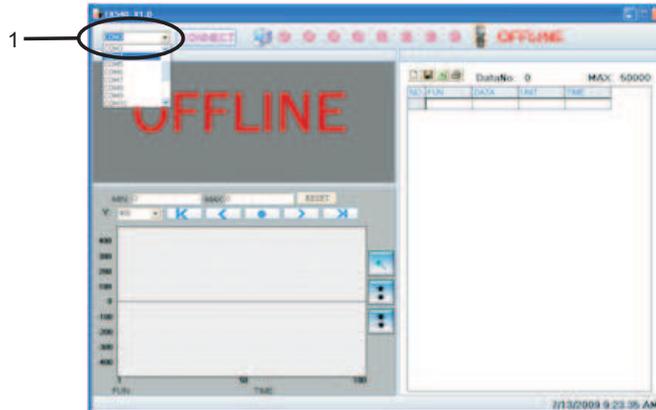

5. Click "CONNECT" and communication should begin. The data on the Multimeter meter should match what is in the Multimeter Software Window.

Sending Logged Data from the Multimeter to the PC

1. Launch Software, Select appropriate COM PORT number and click "CONNECT"

2. On the Multimeter, Press the STORE button for two seconds to enter into data RECALL function.

3. Press the HOLD button for two seconds. The RF transmit icon ⟨Ƴ⟩⟩⟩ will flash while the stored data sent to the pc.

Main Screen Description
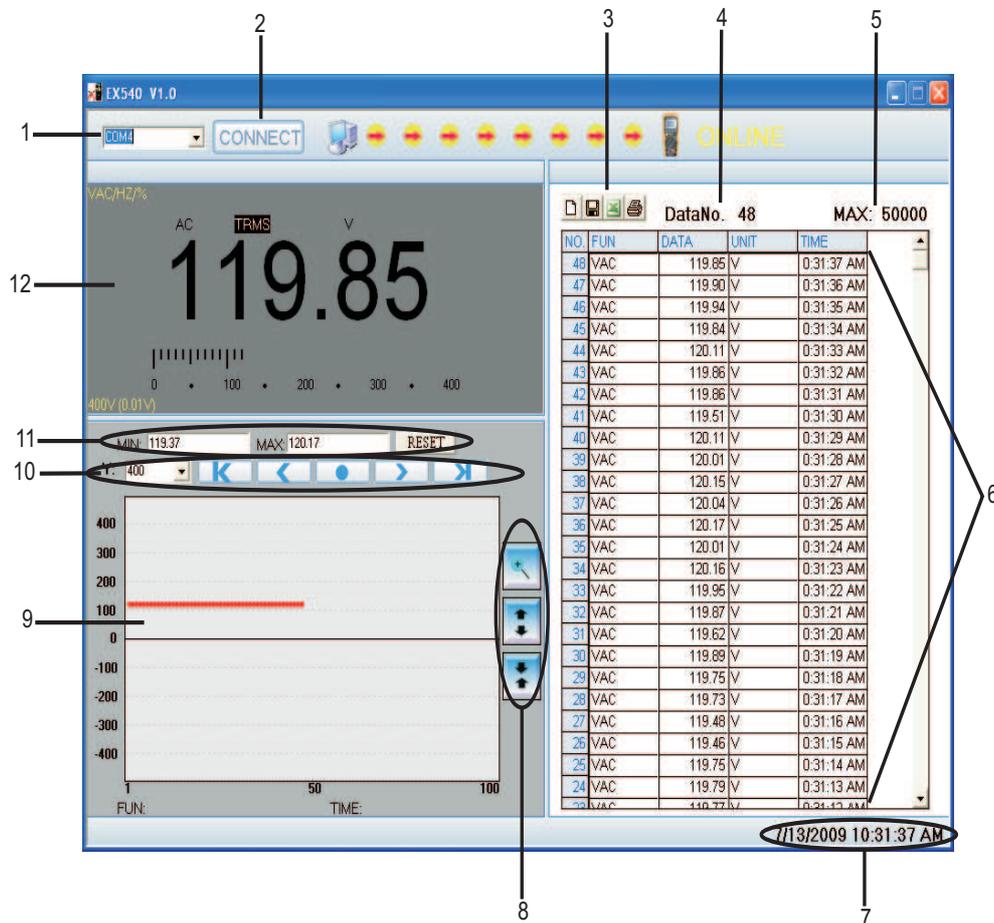
1. **COM PORT Select –** Drop down menu to select appropriate COM PORT for communication.

2. **CONNECT Button –** Once the correct COM PORT is selected. Click "CONNECT" to start communication between the DT-9939 and the software. The graphical stop signs in between the picture of the PC and the unit's graphics will change to red arrows and ONLINE will be displayed to the right indicating communication has been established.

3. **Control Buttons –** *New***:** Clears current data and starts new records, *Save***:** Saves data to a file, *Export to Excel***:** Exports data to Excel, *Print* :Prints data to printer

4. **Data Number** – Tracks and displays sample point as data is acquired.

5. **Max Buffer Size** – The maximum screen buffer is 50,000 records. After 50,000 records is reached the tracking is stopped. Save file and start new buffer by clicking "New".

6. **Data Table** – This area displays the Sample Point Number, DMM Function, Data, Unit and Time of recording.

7. **Date and Time** – Displays current date and time. Synchronized to PC's Real Time Clock.

8. **Graph View Controls** – These controls are used to open a separate graph data window and zoom in and out on sample point numbers on the Y axis. From the separate graph window the graph data can be printed.

9. **Graph Window** – This area displays the real time sample points as acquired on a graph. Using the mouse over technique will display the value of a measurement at each particular point on the graph.

10. **Y Axis Controls** – These control the scale or range of how graphed data is viewed in reference to the Zero Line. Using the pull down Y Axis tab will allow for changing the range. These also have controls to page through sample points if there are more records than fit one screen.

11. **Min/Max/Reset** – This area tracks the lowest and highest reading the meter has recorded for the current session. Click "Reset" to clear the Min/Max values and start over.

12. **Main DMM Display** – This displays the current readings being measured by the DT-9939 as well as the Function and Range. There is both a Digital and an Analog display. If communication is lost "OFFLINE" will appear in this section.

Saving, Opening and Printing Data

To Save the acquired data to a file:

1. Click the [🖫] button to save the data to a .txt file.

2. Click on the Excel button and this will Export it to a .xls.

To Open a File:

1. Open Excel and Browse to the file location. If the file is a .txt the Text Import Wizard will pop up and instruct through import procedure.

To Print Data:

1. Click on the [🖨] button to print data list to printer.