



# Java Multi-Meter

Version 2.2.0, for Mac OS X and Windows  
5 January 2013

## What is it:

JMM is data-acquisition software for digital multi-meters equipped with a serial or USB port, such as the Metex 3850 and many others. The software is very simple to use and the control is straight forward. In the main window you see the measured value and some buttons to do a read-out, or a sequence of measurements.

The log window shows the history of measured data. From the file menu you can save these data. The Plot window shows a graph of the measured data. You can zoom into this data by dragging into the graph. You can open as many plot windows as you like, plotting will always be done in the last opened window.

In the preferences you can set high and low alarm values. When a measure is above the high setting, or below the low setting, the display shows an alarm sign and the software plays a sound. The alarm also is logged in the log window.

## What is new in version 2.2.0:

- Added support for Uni Trend UT61B, UT61C and UT61D.
- Added support for Vichy VC99.

## What is new in version 2.1.0:

- Added configurable low and high measures visual and audio alarms.
- Added more presets.
- Improved user interface.

## What is new in version 2.0.1:

- Added presets for RadioShack 22-805 and Metex ME-11 DMM.
- Minor bug fix.

## What is new in version 2.0:

- Improved user interface.
- Improved plot functionality.
- Added ability to check for updates.
- Bug fixes.

## What is new in version 1.7:

- Fixed a bug which causes a comport close or reset to freeze the application.
- Added support for the Trumeter DPM-812 and DPM-822 panel meters.
- Increased the number of readouts for the demo version to 25.
- Windows version is an exe now in stead of bat file with jar.
- The menu of the Mac version is now in Mac OS X look and feel.

## What is new in version 1.6:

- Version 1.6 better support modern virtual machines.

## What is new in version 1.5:

- In version 1.5 the possibility to change serial port settings is added. Broad ranges of multi-meters, using the same protocol, but with other serial settings are now supported. The Windows and Mac version are now equal, and both use the rxtx package in stead of the Java Communications API.
- The original Keyspan adapter with a special cable is still supported, but now also more common and cheap USB to serial adapters can be used. For these adapters no special cable is needed.
- A demo mode is added, when demo is checked in the preferences dialog, measurements are simulated. This way the software can be evaluated when no multi-meter is connected.

## Installation and setup:

### Mac OS X:

To run on Mac OS X the RXTX, java serial port driver needs to be installed.

RXTX consists of two parts: The Java extension library RXTXcomm.jar and the serial driver to be integrated with the operating system.

**Please note** that you must install RXTX as a user with Administrator privileges (e.g. using **sudo** to move the files).

The following files are included in the RXTX folder:

- RXTX Java serial controller - RXTXcomm.jar
- RXTX native driver - librxtxSerial.jnilib
- Script for setting privileges (Mac OS X 10.5 - 10.8 "(Snow) Leopard and (Mountain) Lion") - fixperm-217-leo.sh
- Script for setting privileges (Mac OS X 10.4 "Tiger" and earlier?) - fixperm-217.sh

Please install '**RXTXcomm.jar**' and '**librxtxSerial.jnilib**' in the '**/Library/Java/Extensions**' folder to make them available to all users or '**~/Library/Java/Extensions**' to be available for the current user only.

Open a Terminal window (found under Application->Utilities) and type: `$ cd ....` (the folder where you the script are located) `$ sudo sh ./fixperm-217-leo.sh` Password: **<your administrator password>** This will set the proper privileges for accessing the serial port driver.

### A special note for Mac OS X 10.8 (Mountain Lion):

Installing the Java Runtime Environment (JRE) in OS X Mountain Lion is necessary even if you had Java previously installed in OS X Lion or Snow Leopard and just performed an upgrade to 10.8. That's because Mountain Lion uninstalls Java during the upgrade process, this is to insure the newest version of the runtime is installed on the Mac for those who need it and leaving it out for those who don't.

Installing Java in OS X Mountain Lion is easy enough. When a Java app such as JMM is opened you will be prompted to install Java for OS X.

### Windows:

Java is needed for JMM, if it isn't installed already you can get it at: <http://www.java.com/>

The RXTX dll's and jar file are included. Extract all files in a single directory and double click Jmm.exe.

### Registration:

This demo version can do 25 readouts per run; you need to register for the full function version.

Information about registration can be found at the website. After registration you will get a registration code. Enter this and your name in the register window (in the Help menu).

## Information and support:

<http://www.agri-vision.nl/jmm.php>