EKM METERING Inc.

EKM Dash Setup Instructions

Opening the the software:
Download the software at one of these web links:
Windows: http://dash.ekmmetering.com/EKMDash/win.zip
Mac OSX: http://dash.ekmmetering.com/EKMDash/mac.zip
Linux: http://dash.ekmmetering.com/EKMDash/lin.zip

Extract the zipped file an run the software.

Adding a meter:
º Click Meters > New Meter (this is the meter setup window)
º Name your meter: Based off of the meter location or the equipment you are metering. Any name that you will recognize will do.
º Select your EKM meter model from the Meter Model Drop Down list.
º Enter the meter number in the Meter Number field. You can find your meter number laser etched on the face of your meter right under the LCD screen. For example: S/N 000000010068 You can enter this meter number as **10068**. Some meters have longer numbers that look like S/N 000300000084. You can enter this meter number as **300000084**.
º Change the meter Read Interval from "Disabled" to "Every 5 seconds" or a any of the other intervals available in the drop down list.
º Set up USB, iSerial, or Push.

Setting up EKM Push, iSerial, or USB:
º If you are setting up your Omnimeter with an EKM push, follow the instructions below.
º If you are reading your meters Remotely (i.e. with an iSerial using you LAN network or over the internet) follow the instructions for iSerial on page 2.
º If you are reading your meters Locally (i.e. with a USB converter or and RS-232 converter) follow the instructions for USB on the last page of this document.

Adding an EKM Push and Omnimeter:
º Provided that your Meters are correctly assigned to you Push device, follow these steps:
º Click Meters > Add Meter (this is the meter setup window)
º Click "Push" option and enter your User Key. For example: **MTAxMDoyMDIw**. Your User Key was sent to you via email when you purchased your EKM Push system.
º Click "Add All..." if you have multiple meters to add. If you only have one meter to add, use the instuctions below.
º Name your meter. It is best to base this off of the meter location or the equipment you are metering. Any name that you will recognize will do.
º Select your EKM Omnimeter model from the Meter Model Drop Down list.
º Enter the meter number in the Meter Number field. You can find your meter number laser etched on the face of your meter right under the LCD screen. For example: S/N 000000010068 You can enter this meter number as **10068**.
º Select your country and timezone in order to adjust the Push data, which is in UTC Time (GMT time), to you time.

The read interval will automatically fill in with the fastest possible setting, typically every 1minute, though this can be set to a slower rate manually.
º Click "OK" To begin to read you meter. The fist reads should begin to show up within a few seconds.

Note: Meters are assigned to Push devices by us at EKM. We typically do this at the time of purchase but can also do it at any time if you wish to add a Push system to your existing meter(s). Please contact us for more information.

iSerial:

If you are using an iSerial to read your meters either over your LAN network or over the Internet, please use this section:

º Make sure you have the correct settings in your iSerial.
º Open a web browser (Firefox is preferred)
º Go to this URL to access your iSerial: 192.168.1.125   If your LAN network has a different range you will have to follow the instructions found in the spec sheet:
http://documents.ekmmetering.com/EKM-iSerial-TCP-IP-to-Serial-Converter-Spec-Sheet.pdf

º Enter User ID: admin
º Password: admin

º Click on UART

º Set the UART Control to:

º Baud Rate: default 9600(v.3 and v.4 Omnimeters) or 1200(v.2 meters)
º Character bits: 7
º Parity Type: Even
º Stop Bits: 1
º Hardware Flow Control: None

º Click "Update"

º Set the iSerial IP address and Port. This is best explained here:
http://documents.ekmmetering.com/EKM-iSerial-TCP-IP-to-Serial-Converter-Spec-Sheet.pdf

If you are reading your meters over the internet:
You will have to open a port in the firewall of your router.

You will have to get assigned a static IP or use a service like dynDNS to acquire a static name. Instructions for doing this are best found here: http://documents.ekmmetering.com/EKM-iSerial-TCP-IP-to-Serial-Converter-Spec-Sheet.pdf

Do not change any other settings. Do Not click Firmware Update or Bootloader Update.

Setting up Remote in the EKM Dash:
º Click the "iSerial" tab

In the Meter Address or iSerial Address field enter the IP address of your iSerial. This can either be the IP address on the LAN network (if you are reading it locally, for example 192.168.1.123), the remote internet public static IP address (for example 144.145.187.30), or your internet name (for example meters.ekmmetering.com)

º Enter the Port (Default is 50000)
º Click "OK"

USB:
If you have an older PC with a RS-232 DB9 serial port:
º Connect your meters (up to 256) to your RS-232 to RS-485 converter, connect the converter to the DB9 serial port on your computer.
º In the USB tab of the EKM Dash software select Com Port: COM Port 1

If you have a computer with USB ports and on of our USB converters (do not use other USB converters as they are often times problematic):
º Connect your meters (up to 256) to your USB to RS-485 converter, plug the USB converter into the USB port of your computer.

 *If your computer does not automatically download the USB drivers, download the USB drivers from
  FTDI found here: http://www.ftdichip.com/Drivers/VCP.htm

º In the USB tab of the EKM Dash software select your USB Com Port. This can be any number from COM 8 to COM 24 or some reference to USB Port (on Mac).
º Click "OK"

Reading Your Meters:
º In the main window Click "Start Reading"
º Click on the Meter you want to view in the "Meter" column
º Click on a meter read in the "Readings" column
º The meter data will be displayed in the "Data" and "Value" columns to the right
º You can also click "Show Dashboard" in the top menu bar to see a visual representation of your Meter Data