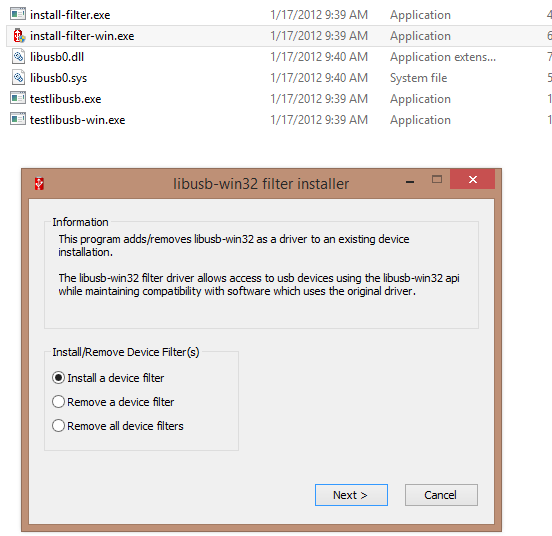
How to reflash your device:

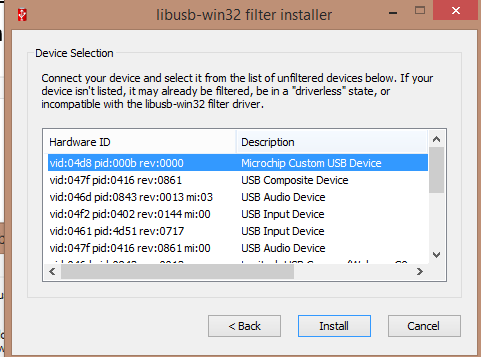
1. On the front panel of the Power Monitor is a small button. The text below it reads "Output enabled." Hold this button in and push the power button. Device should power on, and the LED beside the power button should be amber.
2. The Custom USB Device “Microchip Custom USB Device” should enumerate. If this shows up as “Unknown Device,” it may be necessary to install the drivers. See “Driver Installation” for details:



Figure 1:Windows Device Manager

1. Download the libusb-win32 filter program from <https://sourceforge.net/projects/libusb-win32/> and install the filter appropriate to your system.





1. Select the new firmware file based on your requirements. Most units already have PM\_RevD\_Prot17\_Ver20.hex flashed at the factory, and will be upgrading to LVPM\_RevE\_Prot1\_Ver21\_Beta.fwm

|  |  |  |  |
| --- | --- | --- | --- |
| Hardware | Protocol | File | Notes |
| LVPM / FTA22 | USB | LVPM\_RevE\_Prot1\_Ver21.fwm | Beta release |
| LVPM / FTA22 | Serial | PM\_RevD\_Prot17\_Ver20.hex | Latest official public release |
| HVPM / AAA10F | USB | N/A | Not available for public release yet. |

1. Create a Python script to use the reflash class. An example is provided in reflashMain.py:

Mon = reflash.bootloaderMonsoon()

Mon.setup\_usb()

Header, Hex = Mon.getHeaderFromFWM('LVPM\_RevE\_Prot1\_Ver21.fwm')

if(Mon.verifyHeader(Header)):

Mon.writeFlash(Hex)

1. Note that .fwm files have a header indicating the hardware compatibility for each firmware file. Previous releases use .hex format, so rolling back to older firmware will skip the verification step:

Mon = reflash.bootloaderMonsoon()

Mon.setup\_usb()

Hex = Mon.getHexFile('PM\_RevD\_Prot17\_Ver20.hex')

Mon.writeFlash(Hex)

1. The reflashed Power Monitor has a different device identifier than the bootloader, so it will be necessary to install a second libusb filter:

