

Installation hints LINUX weather station

There are three files:

hygro_183003.tar.gz - Python library for Hygrosens 183003 sensor
hygro_weather.tar.gz - Python library for Hygrosens Weather Station
(This is somewhat altered from Brian Lane's, he has a copy for approval)
weatherstation.tar.gz - This is the mainfiles, doing all the database & image processes.

To install whole setup:

First You need pyserial for python to access serialports. (This includes USB, not tested by me) download from here:
http://sourceforge.net/project/showfiles.php?group_id=46487

Secondly You need RRDTool, if in Debian, "apt-get install rrdtool" otherwise:
<http://people.ee.ethz.ch/%7Eoetiker/webtools/rrdtool/index.en.html>

And a arial.ttf font, download from link
<http://www.webpagepublicity.com/free-fonts/a/Arial.ttf>
(The font should be copied to default location of /usr/share/fonts/truetype/ if anything else, check run.sh later)

After You have successfully installed those, extract the attached files to a directory of Your choice. (/etc recommended). Now You have 3 new directories, "hygrosens_183003", "hygrosens_weather" and "weatherstation", according to Your setup. You need at least the "hygrosens_weather", go there, and read README. After successful installation go to "hygrosens_weather/examples" and import the .sq0 to Your mysql, making a new database called "weather" and a table "weather_station". After that copy the file "log_weather.py" to "hygrosens_weather". Edit the file according to Your setup.

Now You are ready to run a test, still in /etc/hygrosens_weather/ run a command "python log_weather.py" and check in Your mysql-database that data gets there correctly.

Now, when that's okay, You can do the same in "hygrosens:183003" if You are using both. Only difference is some filenames, You get the picture.

Now begins my pride and joy. Go to directory "/etc/weatherstation" and issue command "./install" (Note the ./ in front) and answer that single question. Now, edit the "run.sh" file according to Your setup.

After that You can run a command ./run.sh and check Your www-folder (or whatever You did editing run.sh), there should be a whole bunch of images. If so, add the run.sh to crontab.

And You're done!

Test specifications: (Tested only on this, no clue how it works on different setups)

Debian 3.1r1 w. 2.6.8 kernel
MySQL 5.0.18
Python 2.3.5
RRDTool 1.2.11 (I strongly recommend same version, due to compatibility problems, for example older versions have font-issues)
Apache 2.0.55 (This really doesn't have a difference)

My testpage (running exactly a setup from these files) is at
<http://www.vaasaweather.com/temps/test.php>.

Permission to release the whole setup comes after Brian Lane has said ok to my modifications to his python library. The "weatherstation"-part is free for distribution, since that's 100% written by me.

tero.salminen@vaasaweather.com

PS: I'm just amazed about this product, not one error value!

Tero Salminen
www.vaasaweather.com <<http://www.vaasaweather.com>>