

## Editing HAWCmon Measurement Types

First off, in order to change the **Measurement Name**, **Measurement Type**, **Units**, **Data type**, **Sensor id**, **Warning** levels (lower and upper), and **Alarm** levels (lower and upper), you need to first go to the official [HAWC Experiment Monitoring](#) website (the UMD website, not the MSU one), i.e. [HAWCmon](#). The main page is the Dashboard, and from there you select "Admin Page" in the lower right of the Dashboard home page. From there select "Measurement\_types" , or select the "Change" button beside it (both will take you to the same page). Now you will be able to see all of the measurements displayed in the HAWCmon website. From here, you can now scroll to the measurement you want to edit. For instructions regarding the some specific measurements and labels, see the list below:

- [HV Measurement Types](#)
- ...
- ...

### HV Measurement Types

The naming scheme for the HV measurements can seem complicated at first, but once the **Measurement Name** is broken down, renaming it is quite simple. The **Measurement Name** for the HV measurements are of the form **hv-1\_u0\_v** and **hv-1\_u0\_c**. A breakdown of these names are as follows:

- The **hv-1** refers to the Wiener HV Crate number (there is only 1 crate currently, thus each HV **Measurement Name** has **hv-1**). Each crate contains several modules that each have 32 channels.
- The **u0**, **u1**, . . . values refer to the channel number (there are currently only 2 HV modules, thus **u0 - u31** refer to channels 1 - 32 and **u100 - u131** refer to channels 101 - 132). This may seem confusing because the Wiener software names the 32 channels in a module where the first one is channel 0 and the last is 31. Yet, in the user interface, the channels are numbered 1 - 32. Because the people working in the counting house will be using the user interface and not necessarily the software, the naming scheme of channels 1 - 32 will be used for the HAWCmon **Measurement Type** names.
- The **v** or **c** refers to whether it is a voltage (in volts, V) or current (in Amps, A) measurement respectively.

Now, the two HV modules actually have slightly different naming conventions. The first module, channels 1 - 32, are labeled as W1 - W32. The second module, channels 101-132, are labeled simply that (i.e. just 101 - 132 without a W). These conventions are currently being followed for the HV **Measurement Type** names.

In addition to channel number, each **Measurement Type** name also has the tanks that the channel is connected to. In order to locate this information, you must visit either the [Electronics Configuration page](#) or [Josh's monitoring webpage](#). If you choose the former, you will be looking at "FEB Crate 2 Mapping" for the first HV module (i.e. channels 1 - 32) and "FEB Crate 3 Mapping" for the second (i.e. channels 101 - 132); the latter website, however, is much easier to look at, at least for the HV measurements (as it displays all of the same information in a clearer, more spread-out fashion), and you merely scroll down to the table labeled "Wiener HV".

The naming scheme applied to the HV **Measurement Type** names is of the form **W1, Tanks N11, 011 or 101, Tanks T10, U10**, where the W1 and 101 refer to the channel numbers (all the information in these names can be obtained either from the Electronics Configuration page or Josh's page)