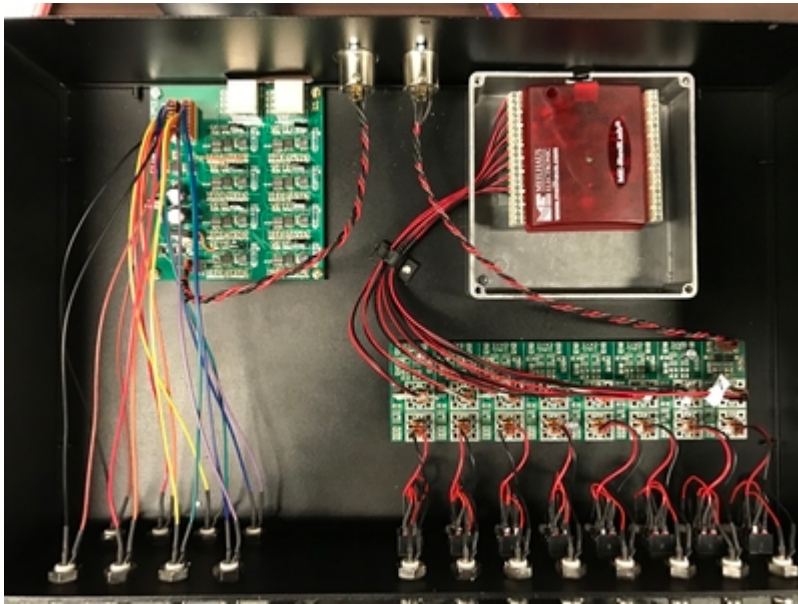


Monitoring with Redlab



LabView Program

Each channel can be turned on separately with the above array. Depending on the array below, the measured data is then going to be used for the temperature measurement (T) or the analysis (A).

To end the program always use this button. Never the red circle!

To save the data for the 3 graphs below follow these steps:

1. Choose a folder with enough free space
2. Press start to begin the recording
3. Press stop to end the recording

The file is saved with this pattern: MeasurementYYMMDDHHMMSS.txt and it is comma-separated.

If a wavemeter is connected to the PC, the measured frequency will be shown here.

To convert the measured voltage to the correct temperature, the Dip Switch needs to be set how it is in the lab.

The timing parameters define how many samples to read within the time given with the sample rate until the graph can be shown.

Important for longer measurements: Activate this button to prevent overflowing of RAM.

Deactivating it means that the graph is saved to show changes over time.

The type of analysis can be chosen with this drop down menu.

Depending on the given temperature and range, this LEDs turn red if the temperature is not in that range. Also an alarm signal can be chosen in the settings tab above.

To read out the temperature measured by the Meerstetter, follow these steps:

1. Start the logging procedure in the TEC Service Software
2. Point the LabView program to the folder where the file is stored
3. If the measurement is done, click the stop button on the LabView program
4. Stop logging in the TEC Service Software

You can also get warnings, when the temperature is out of range. Therefore simply type in the wanted temperature and the range in the fields above.

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Last update: 2017/08/30 11:26

