Detector Calibration Workflow

Prepare

- Verify power off. (MPOD panel or IoC panel)
- Install detector in Marietta.
- Connect chiller, start flow.
- Connect data fiber.
- Connect gas line if applicable, start flow at 5l/m.

Power

- Set known values on mpod.
- Pin out cable according to diagram.
- Turn off mpod.
- Connect power cable to detector.
- Set operating voltages on mpod. (check here)
- Start DAQ ("restartdaq") and configure to begin idle.

Thermally Stabilize

- For 10k small/100: Wait for temperature < 10C and humidity < 10% (ideally under 5%)
- For 10k2M: takes ~1hr

Record Voltage/Current/Temperature Values

Measure Pedestals (run charge injection script)

Collect Fluorescence Data

- Make sure centers line up (detector and target)
- Take pedestals if you haven't already
- Silver: ~10cm distance, 35kVp, 45uA (50 was old current, proved to be too high, saw burn-in)

~~Direct Illumination w/Mini-X~~

Process Data

Update Traveller