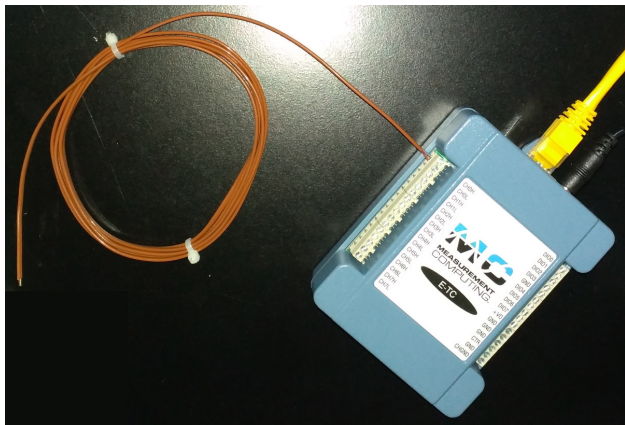


# Setup

- ▶ MCC E-TC: Ethernet DAQ device for thermocouple
- ▶ Thermocouple (TC): Omega Type T



- ▶ Remote access system:  
E-TC – Home LAN – Win PC – LabVIEW

# Status & Update

## ▶ VI code (based on CML DQMH):

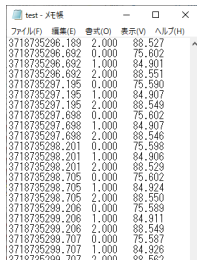
[https://github.com/uva-spin/Temperature-Pressure-VIs/tree/main/MCC\\_ETC\\_VIs](https://github.com/uva-spin/Temperature-Pressure-VIs/tree/main/MCC_ETC_VIs)

## ▶ Able to measure & log the readings continuously

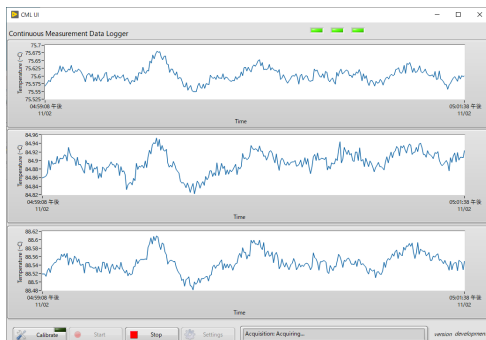
- ▶ Channels #0...#2
- ▶ Readout rate = 0.5 Hz
- ▶ 1,000 points in chart (via Chart History Length)
- ▶ Log into TSV file

## ▶ All parameters are hard-coded

- ▶ Fine at least for commissioning?
- ▶ Tips for improvement are welcome



| ID             | Value | Rate   | Unit |
|----------------|-------|--------|------|
| 3718735296.189 | 2.000 | 88.527 |      |
| 3718735296.692 | 0.000 | 75.602 |      |
| 3718735296.692 | 1.000 | 84.901 |      |
| 3718735296.692 | 2.000 | 88.551 |      |
| 3718735297.195 | 0.000 | 75.590 |      |
| 3718735297.195 | 1.000 | 84.907 |      |
| 3718735297.195 | 2.000 | 88.549 |      |
| 3718735297.698 | 0.000 | 75.602 |      |
| 3718735297.698 | 1.000 | 84.907 |      |
| 3718735297.698 | 2.000 | 88.546 |      |
| 3718735298.201 | 0.000 | 75.598 |      |
| 3718735298.201 | 1.000 | 84.906 |      |
| 3718735298.201 | 2.000 | 88.529 |      |
| 3718735298.705 | 0.000 | 75.602 |      |
| 3718735298.705 | 1.000 | 84.924 |      |
| 3718735298.705 | 2.000 | 88.550 |      |
| 3718735299.206 | 0.000 | 75.589 |      |
| 3718735299.206 | 1.000 | 84.911 |      |
| 3718735299.206 | 2.000 | 88.549 |      |
| 3718735299.707 | 0.000 | 75.587 |      |
| 3718735299.707 | 1.000 | 84.926 |      |
| 3718735299.707 | 2.000 | 88.567 |      |



# General Settings for Slow Control Monitoring

- ▶ Set up and start the continuous slow-control monitoring
  - ▷ Adjust our VI codes to meet the general scheme
  - ▷ Check how readings and alarms appear on the monitor
- ▶ Slow control data monitor
  - ▷ <https://confluence.its.virginia.edu/display/General/Subsystems+Page>
  - ▷ For not only the target system but also the beam, the detectors, etc.
  - ▷ Astrid wants to improve the server software at NM4, to keep the slow control data monitor running
  - ▷ Will have a meeting with Astrid et al. on Friday morning
- ▶ Target computer
  - ▷ What/how should we configure further? Any existing plans (by Misha)?
  - ▷ How to mount `/data2`?
  - ▷ How to let the VI code of each device access spill ID, BOS & EOS?
  - ▷ Others?