

Airflow Measurement Experiment

ver 11.2017

Note: Keep in mind that each pressure and temperature corresponds to a point along the pipe (see [diagram](#)).

Startup:

1. Open the Labview controls (find them [here](#)).
2. Request control of the VI.
3. Toggle Manual Control Override to manual (if needed) with bypass valve completely open (100%).
4. Press the blower start switch (see picture below).
5. Manually tune system to around desired flow rate, then you can switch to auto control.
5. Begin your data acquisition by selecting time between data points (recommended between 1 & 5 sec), specifying the number of data points and clicking the Push to Record button (It will light up)
6. The rotameter is read manually.

Shutdown:

1. Reduce the air flow rate until the bypass valve is completely open.
2. Turn off the blower by pressing the red STOP button on the wall.





Figure 1 Labview VI for Airflow