

USING THE CAPTURE HOOD STAND WITH EXTENSION TUBING AND DETACHABLE METER

TSI® 8380
ALNOR® EBT731
AIRFLOW INSTRUMENTS® PH731

APPLICATION NOTE TSI-161 (A4)

The capture hood stand allows hood users to measure air flows from ceiling diffusers and grilles up to 15 ft. (4.5 m) high without the need for a ladder.

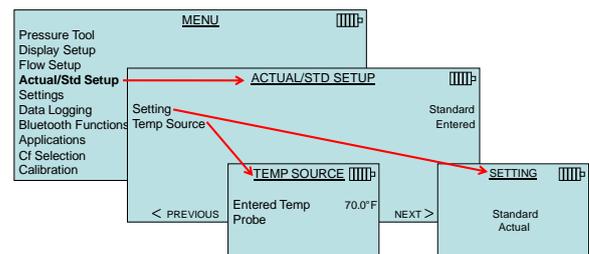
1. Flow measurements can be viewed remotely using an Android™ based smart device with TSI's [LogDat™ Mobile](#) app that utilizes Bluetooth® to communicate between the instruments meter and the smart device.
2. Flow measurements can be viewed on the meter by detaching it from the base and using tubing to connect the meter directly to the flow manifold installed in the base of the capture hood. The procedure below outlines the steps necessary.



Instrument Setup

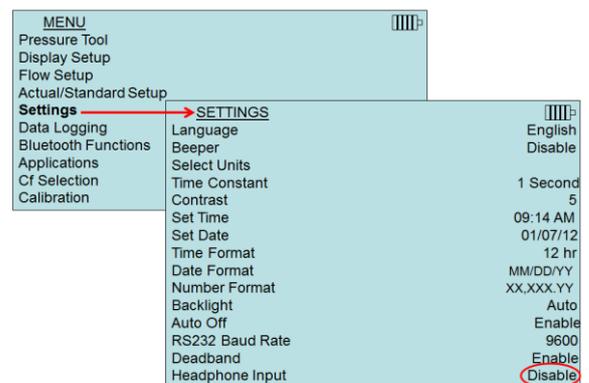
Program temperature into micromanometer

1. Go to **Actual/Std Setup** menu
2. Set **Temp Source** to **Entered**
3. Enter ambient air temperature



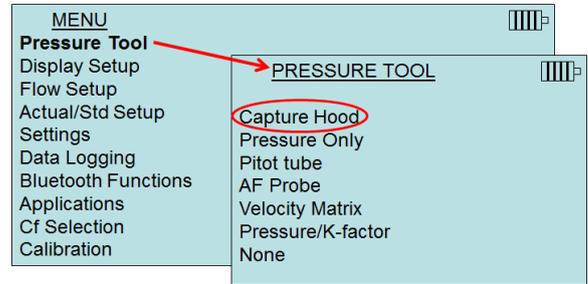
Disable Headphone Input

1. Go to **Settings** menu
2. Set Headphone Input to **Disable**



Set Pressure Tool to Capture Hood

Note Backpressure compensation mode cannot be utilized when using the stand.



Connecting the Micromanometer Directly to the Flow Manifold

1. Unplug the base temperature probe and headphone jack from the micromanometer, and remove the micromanometer from instrument base.



2. Disconnect the short tubing from the ports on the flow manifold.



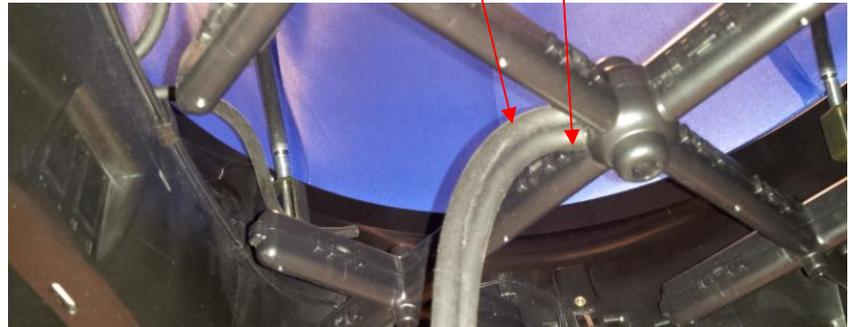
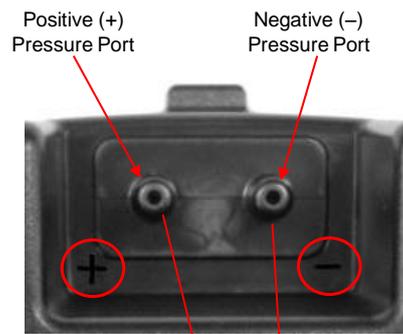
3. The short tubing ends can be inserted into the pole support bracket to keep them out of the way.



4. Use the two 8 ft. (2.4 m) sections of tubing included with the instrument to connect meter directly to flow manifold



- a. Connect one section of tubing to the "+" pressure port on the micromanometer, and the other end to the flow manifold port facing towards the top of the hood.
- b. Connect the other section of tubing to the "-" pressure port on the micromanometer, and the other end to the flow manifold port facing towards the bottom of the hood.



Attaching Capture Hood to Stand

1. Mount the capture hood base onto the quad bracket corners. Use thumbscrews to tighten.
2. Raise the hood using the adjustable extension poles.
3. Make sure to make a tight seal against the outlet.
4. Lock in place by tightening the thumbscrews on the extension poles.



Note: When taking measurements, try to keep the tubing as still as possible for best results.

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