

# TAKING FLOW MEASUREMENTS WITH TSI/ALNOR® BALOMETER® CAPTURE HOODS

APPLICATION NOTE AL-160

Balometer® Capture Hoods can be configured with various sizes of fabric skirts and frame supports to fit different diffuser and grille configurations. The Balometer® Capture Hood “captures” all air exiting from a diffuser or grille and guides it through a sampling manifold which has evenly spaced inlets to average the flow through the manifold.

These instruments are used on both supply and return/exhaust outlets with separate calibrations for each mode performed at the factory. *By following the recommendations below, the factory accuracy statements as well as those listed in the 2013 Reference Appendices – The Building Energy Efficiency Standards for Residential and Nonresidential Buildings sections RA 3.3.1.2 and RA 3.7.2.2 per CEC Title 24 - can easily be achieved.*

## Taking a Flow Measurement

1. Select a hood size to attach to the Balometer® Capture Hood that most closely matches the size of the outlet under test.
2. Turn the instrument ON.
3. If using the ABT or LoFlo Balometer® Capture Hood, select the proper mode for air flow direction (supply or return/exhaust).
4. Place the hood over the diffuser or grille to be measured and make sure there are no gaps between the hood foam and the surface around the diffuser or grille.
  - a. *If the hood is larger than the outlet dimensions, make sure the outlet is centered within the hood when taking measurements.*
5. Allow the Balometer® Capture Hood a few seconds to measure the flow and stabilize before taking data.





**Alnor Products, TSI Incorporated**  
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