The Model VP1 100 mm Vane Thermo-Anemometer Probe measures air velocity, air flow, humidity, and temperature when combined with the Model UHH Universal Handheld. By having a larger diameter, the rotating vane is able to measure velocities down to 50 fpm or 0.25 m/s. An arrow is molded into the vane housing to depict the flow direction.

**PAIRING PROBES**
1. Plug VP1 into UHH 6-pin probe connection on the top of the UHH.
2. Turn on Model UHH Universal Handheld by pressing the button.

**SETTINGS**
When using the Model VP1 Wireless 100 mm Thermo-Anemometer Probe, the base unit can display velocity or air flow along with temperature and humidity. The settings allow users to select velocity or air flow, engineering units, measurement range, and which parameters to show on the display. To access the setting menus:

1. Press the or arrows to scroll through the menu headings at the top of the display.
2. When PROBE is highlighted, hit the button to access the probe menu.
3. Press the arrow to scroll through the sub-menu headings. The currently selected parameter will be highlighted in yellow.

**Flow / Velocity Selection**
1. When sub-menu TYPE (next to Anemometer) is highlighted, hit the button to access the settings for the sub-menu.
2. Press the arrow to scroll through the parameters. The currently selected parameter will be highlighted in yellow.
3. When DISPLAY is highlighted, press the button and velocity or vol. flow will be highlighted.
4. Pressing the or buttons will alternate between velocity and vol. flow.
5. Once the desired selection is made, press button.

**Units Selection**
1. When sub-menu TYPE (next to Anemometer, Humidity or Temperature) is highlighted, hit the button to access the settings sub-menu.
2. Press the arrow to scroll through the parameter headings. The currently selected parameter will be highlighted in yellow.
3. When UNITS is highlighted, press the button and the current units will be highlighted.
4. Pressing the or buttons will cycle through the available units.
5. Once the desired selection is made, press button.

**SPECIFICATIONS**

- **Service:** Clean Air.
- **Temperature Limits:** Process: -4 to 140°F (-20 to 60°C); Ambient: 5 to 125°F (-15 to 51°C).
- **Range:** Air Velocity: 50 to 5000 fpm (0.25 to 25 m/s); Temperature: -4 to 140°F (-20 to 60°C); Relative Humidity: 0 to 100% RH; Air Volume: 999,999 in selected units.
- **Accuracy:** Air Velocity: 0.25 to 10 m/s: ±1.5% of reading ±20 fpm (±0.1 m/s); 10 to 20 m/s: 1.5% of reading ±40 fpm (±0.2 m/s); 20 to 25 m/s: ±1.5% of reading ±60 fpm (±0.3 m/s); Temperature: ±0.54 @ 77°F (±0.3 @ 25°C); Relative Humidity: ±2% @ 77°F (25°C) (10 to 90% RH); ±4% (0 to 10% and 90 to 100%).
- **Response Time:** Air Velocity: 1 s; Temperature: 1.5 s; Relative Humidity: 1.5 s; Air Volume: 1 s.
- **Probe Length:** 8” (203 mm) insertion.
- **Vane Material:** Anodized aluminum.
- **Handle Enclosure:** Thermoplastic elastomer over polycarbonate.
- **Weight:** 15.2 oz (449.52 g).
- **Agency Approvals:** CE, RoHS.
Area Adjustment (Only when Display is set to Volumetric Flow)
1. When sub-menu TYPE (next to Anemometer) is highlighted, hit the \( \bigcirc \) button to access the settings sub-menu.
2. Press the \( \bigtriangleup \) arrow to scroll through the parameter headings. The currently selected parameter will be highlighted in yellow.
3. When AREA is highlighted, press the \( \bigcirc \) button to enter a new submenu that allows selection of the shape of the duct, engineering units in which the duct is measured, and the dimensions of the duct.
4. Press the \( \bigtriangleup \) arrow to scroll through the parameter headings. The currently selected parameter will be highlighted in yellow.
5. When the desired menu is highlighted, press the \( \bigcirc \) button and the current value of the parameter will be highlighted.
6. Pressing the \( \Delta \) or \( \nabla \) buttons will cycle through the available options for each parameter.
7. Once the desired selection is made, press \( \bigcirc \) button.
8. After all of the area parameters are made, press \( \bigcirc \) button.

Range Adjustment
1. When sub-menu TYPE (next to Anemometer) is highlighted, hit the \( \bigcirc \) button to access the settings sub-menu.
2. Press the \( \bigtriangleup \) arrow to scroll through the parameter headings. The currently selected parameter will be highlighted in yellow.
3. When RANGE is highlighted, press the \( \bigcirc \) button and the current minimum and maximum of the range will be highlighted.
4. Pressing the \( \Delta \) or \( \nabla \) buttons will cycle through the available ranges.
5. Once the desired selection is made, press \( \bigcirc \) button.

Display Measurements

**NOTICE**
The measurements on the MAJOR display will always be displayed, but the measurements on the secondary displays can be turned off.
1. When MAJOR is highlighted, press the \( \bigcirc \) button and the measurement type selected will be highlighted.
2. Pressing the \( \Delta \) or \( \nabla \) buttons will cycle through the available parameters.
3. Once the desired selection is made, press \( \bigcirc \) button.
4. In order to turn off the secondary displays, use the \( \Delta \) and \( \nabla \) to select the measurement type that is not selected for the MAJOR display.
5. When the desired TYPE is highlighted, hit the \( \bigcirc \) button to access the settings sub-menu.
6. Press the \( \bigtriangleup \) arrow to scroll through the parameter headings. The currently selected parameter will be highlighted in yellow.
7. When VISIBLE is highlighted, press the \( \bigcirc \) button and either ON or OFF will be highlighted. The measurement will be displayed when set to ON and not displayed when set to OFF.
8. Pressing the \( \Delta \) or \( \nabla \) buttons will alternate between ON and OFF.
9. Once the desired selection is made, press \( \bigcirc \) button.

ACCESSORIES
To maximize the usefulness of the VP1, an optional cone kit (A-VPX-CKIT) is available. A round 7.2 in (183 mm) diameter hood and a rectangular 10.9 x 8.9 in (277 x 226 mm) hood are included in the kit. The cones are able to convert the VP1 into an air volume flow balancing tool for use with small grilles and diffusers.

MAINTENANCE/REPAIR
Upon final installation of the Model VP1, no routine maintenance is required. The Model VP1 is not field serviceable and should be returned if repair is needed. Field repair should not be attempted and may void warranty.

WARRANTY/RETURN
Refer to “Terms and Conditions of Sales” in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem, plus any additional application notes.