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**VOLTCRAFT VPT-100**

# VOLTCRAFT VPT-100 Pitot Tube Anemometer

User Manual

## 1. Introduction

Thank you for choosing the VOLTCRAFT VPT-100 Pitot Tube Anemometer. This device is designed for precise measurement of air pressure and volumetric flow, making it an essential tool for HVAC professionals, engineers, and researchers. Please read this manual thoroughly before operating the device to ensure safe and correct usage.

## 2. Safety Information

Always observe the following safety precautions to prevent injury or damage to the device:

- Do not attempt to modify or disassemble the device.
- Keep the device away from water, high humidity, and extreme temperatures.
- Ensure proper battery polarity when installing batteries.
- Remove batteries if the device will not be used for an extended period.
- Do not use the device in explosive environments.
- Handle the Pitot tube with care to avoid bending or damage.

## 3. Product Overview and Components

The VOLTCRAFT VPT-100 is a compact and robust Pitot tube anemometer. Familiarize yourself with its main parts:




Figure 3.1: Front view of the VOLTCRAFT VPT-100 Anemometer with connected Pitot tube and hoses. The device features a large LCD display and multiple control buttons.

1. **LCD Display:** Shows measurement readings, units, and status indicators.
2. **Control Buttons:** For power, unit selection, data hold, min/max, and backlight.
3. **Pitot Tube Ports:** For connecting the Pitot tube hoses.
4. **Battery Compartment:** Located at the rear of the device.
5. **Pitot Tube:** Used to measure differential pressure.
6. **Connecting Hoses:** Connect the Pitot tube to the device.




Figure 3.2: Detailed view of the VPT-100's LCD display, showing digital readouts for time and pressure, along with indicators for MIN, HOLD, and MEM functions.

## 4. Setup

### 4.1. Battery Installation

1. Open the battery compartment cover on the rear of the device.
2. Insert the required batteries (e.g., 9V battery, not included) ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.

### 4.2. Connecting the Pitot Tube

1. Connect the two flexible hoses to the Pitot tube's pressure ports.
2. Connect the other ends of the hoses to the corresponding input ports on the top of the VPT-100 device. Ensure a snug fit to prevent leaks.
3. The Pitot tube is now ready for differential pressure measurements.

## 5. Operating Instructions

### 5.1. Power On/Off

Press the **POWER** button to turn the device on. Press and hold the**POWER** button for a few seconds to turn it off.

### 5.2. Measurement Modes

The VPT-100 can measure differential pressure and calculate volumetric flow. Use the**MODE** button to switch between measurement displays.

### 5.3. Unit Selection

Press the **UNIT** button to cycle through available pressure units (e.g., psi, kPa, mmHg, inH2O) or flow units (e.g., CFM, CMM).

### 5.4. Data Hold

Press the **HOLD** button to freeze the current reading on the display. Press again to release.

### 5.5. Minimum/Maximum Readings

Press the **MIN/MAX** button to display the minimum or maximum recorded values during a measurement session. Press repeatedly to cycle through MIN, MAX, and current readings.

### 5.6. Backlight

Press the **LIGHT** button to activate the display backlight for better visibility in low-light conditions. Press again to turn it off.

### 5.7. Zero Adjustment

Before taking measurements, ensure the Pitot tube is exposed to ambient pressure and press the**ZERO** button to calibrate the device to zero differential pressure.

## 6. Maintenance

### 6.1. Cleaning

Wipe the device and Pitot tube with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the device ports.

### 6.2. Storage

Store the VPT-100 in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries.

### 6.3. Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in Section 4.1.

## 7. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Device does not power on. | Dead or incorrectly installed batteries. | Replace batteries, check polarity. |
| Inaccurate readings. | Pitot tube clogged or damaged; improper zero adjustment; hose leaks. | Check Pitot tube for obstructions; perform zero adjustment; check hose connections. |
| Display is dim or flickering. | Low battery. | Replace batteries. |

## 8. Specifications

| Parameter | Value |
|---|---|
| Model | VPT-100 |
| Dimensions (L x W x H) | 20.3 x 7.5 x 5 cm (8 x 2.95 x 1.97 inches) |
| Weight | 338 g (0.75 lbs) |
| Power Supply | Battery operated (not included) |
| Air Velocity Range | 1-80 m/s |

| Parameter | Value |
|---|---|
| Measurement Types | Differential Pressure, Volumetric Flow |
| Units | psi, kPa, mmHg, inH2O, m/s, CFM, CMM (selectable) |

## 9. Warranty and Support

VOLTCRAFT products are manufactured to high quality standards. For warranty information or technical support, please refer to the warranty card included with your purchase or visit the official VOLTCRAFT website. Keep your purchase receipt as proof of purchase.
For further assistance, you may contact VOLTCRAFT customer service through their official channels.

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