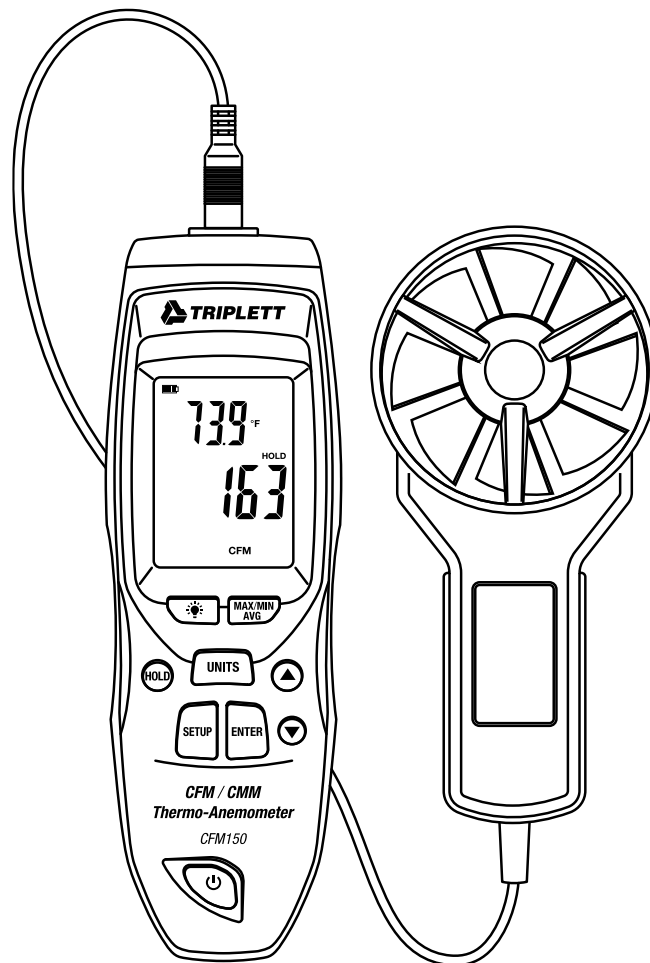


CFM150

CFM/CMM Thermo-Anemometer



Introduction

Welcome, and congratulations on your purchase of the Triplett CFM150 Thermo-Anemometer. This precision instrument is designed to measure air velocity, airflow volume, and ambient temperature with high accuracy and stability. The CFM150 delivers fast response, intuitive operation, and clear digital readouts, making it ideal for HVAC installation, ventilation system testing, environmental monitoring, and other air-movement applications. Before operating the meter, please read this manual carefully to ensure proper use, safe operation, and reliable performance.

What's in the box:

- (1) CFM150
- (1) User Manual
- (1) 9V Battery

Stay updated:

For the most recent version of the user manual, always visit the official Triplett website: www.triplett.com and search for **CFM150**.

Safety Information

- Read all instructions before operating the meter.
- Do not expose the meter to direct sunlight, high humidity, or excessive dust.
- Avoid strong vibration, shock, or dropping the instrument.
- Do not use the meter near strong electromagnetic fields or static electricity sources.
- Remove the battery when the meter is not used for an extended period.
- Replace the battery only with one of the specified types.
- Do not attempt to disassemble or modify the instrument. Servicing should be performed by qualified personnel only.

Product Overview

The CFM150 measures air velocity, temperature, and calculates air flow volume automatically after the user inputs duct dimensions. The lightweight vane probe ensures stable reading and minimal friction losses.

Display Indicators:

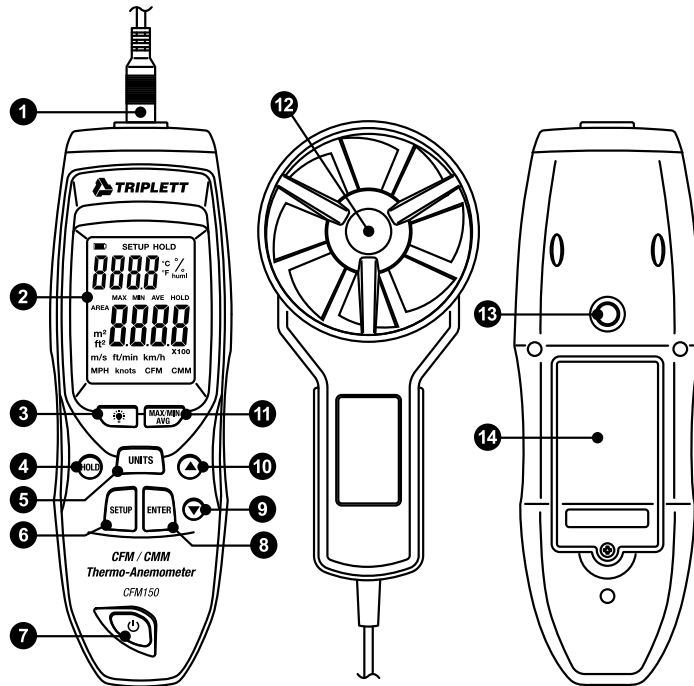
- Air Velocity in ft/min, mph, km/h, m/s, or knots
- Air Flow in CFM or CMM
- Temperature in °F or °C
- HOLD, MAX, and MIN icons
- Low Battery indicator

Key Features

- Measures Air Velocity, Air Flow (CFM/CMM), and Temperature
- Selectable units: ft/min, mph, km/h, m/s, knots
- Temperature in °F and °C
- Data Hold, Max/Min memory functions
- Large dual-line LCD for simultaneous airflow and temperature display
- Auto Power-Off (can be disabled)
- Low battery indication

Meter Description

1. Vane Probe Input
2. LCD Display
3. Backlight Button
4. HOLD Button
5. UNITS Button
6. Setup Button
7. Power ON/OFF Button
8. Enter Button
9. Down Button
10. Up Button
11. MAX/MIN/AVG Button
12. Vane Probe
13. Tripod Mount
14. Battery Cover



Buttons and Controls

POWER: Turns the meter ON/OFF.

UNIT: Selects air velocity units (ft/min → mph → km/h → m/s → knots).

SETUP: Toggles between area setting, temperature setting and humidity. Enter to save.

HOLD: Freezes the current displayed reading.

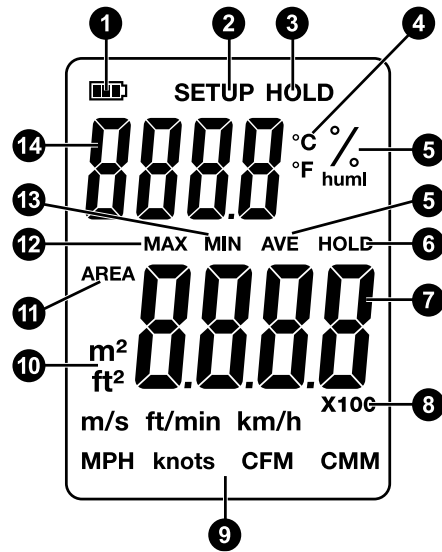
MAX/MIN: Displays the maximum and minimum measured values.

ENTER: Used to enter and save the set duct area for calculating air volume.

°F/°C: Switches temperature unit display.

LCD Description

1. Battery Indicator
2. Setup Icon
3. Data Hold Icon
4. °C/°F and %Humidity Indicators
5. AVG Value Symbol
6. HOLD Indicator
7. Current Air Velocity Value
8. Multiplier Value X10/X100
9. Air Volume/Velocity Units Indicators
10. ft² Indicator/ m² Indicator
11. AREA Value Indicator
12. MAX Icon
13. MIN Icon
14. Temperature and Humidity Value



Operating Instructions

Power On: Press the POWER button to turn the meter ON. All symbols will briefly appear on the display during self-test.

Select Function: Use the **MODE** button to choose from Air Velocity, Air Flow (CFM/CMM), and Temperature modes.

Setting Duct Area (Air Flow Mode Only): Press MODE until “CFM” or “CMM” appears. Press AREA once — the display will show the duct size. Use the UNIT and arrow keys (if applicable) to adjust the dimensions. Press AREA again to confirm and return to measurement.

Measuring Air Velocity: Insert the vane probe into the airflow path. Ensure the probe face is aligned with the air direction. Read the air velocity on the display. Press HOLD to freeze a value if needed. Press MAX/MIN to view maximum or minimum recorded readings.

Measuring Air Flow (CFM/CMM): Enter the duct area as described above. Place the probe at the airflow outlet or duct opening. The display shows total air volume (in CFM or CMM). Move the probe across different positions if necessary to average flow across the duct.

Measuring Temperature: The device measures temperature automatically upon power-up. To change the unit, press **SETUP** twice, then press **UNITS**.

Measuring Humidity: Press SETUP twice, then press the UP button to measure.

Data Hold / Max / Min: Press HOLD to freeze the current value. Press again to release. Press MAX/MIN to display maximum or minimum stored values; press again to exit.

Auto Power-Off: The meter will automatically power off after approximately 15 minutes of inactivity to conserve battery life. To disable Auto Power-Off, press and hold HOLD while turning the meter ON.

Maintenance

- Keep the sensor and vane clean and free from dust or oil.
- Clean the housing with soft, dry cloth. Do not use solvents or abrasives.
- Remove the battery if the meter is not used for a long period.
- Replace the battery when the low-battery symbol appears.

Battery Replacement

1. Turn the meter OFF and remove the protective rubber case (if equipped).
2. Open the battery compartment on the back.
3. Replace with one 9 V battery (NEDA 1604 or 6F22).
4. Reattach the cover securely.

Specifications

Feature	Description
Air Velocity Range	80 – 5900 ft/min (0.4 – 30 m/s)
Resolution	1 ft/min (0.01 m/s)
Accuracy	±3% of reading ±40 ft/min (±3% ±0.2 m/s)
Air Flow Range	0 – 99,999 CFM or CMM
Temperature Range	32 °F – 122 °F (0 °C – 50 °C)
Temperature Accuracy	±1.8 °F (±1 °C)
Display	Dual-line LCD
Power Supply	9 V battery (NEDA 1604 or 6F22)
Auto Power-Off	After 15 minutes of inactivity
Operating Conditions	32 °F – 122 °F (0 °C – 50 °C), <80% RH
Storage Conditions	14 °F – 140 °F (-10 °C – 60 °C), <70% RH
Dimensions	7.9 × 2.8 × 1.5 in (200 × 70 × 38 mm)
Weight	Approx. 7 oz (200 g) including battery

Warranty Statement

Triplett Test Equipment offers a two-year warranty to the original purchaser of its products. We guarantee that our products will be free from defects in workmanship and materials for two (2) years from the purchase date.

This warranty does not cover:

- Products purchased from unauthorized distributors.
- Items that have been repaired or altered by unauthorized individuals.
- Damage from misuse, abuse, misapplication, negligence, or accidents.
- Products with altered, defaced, or removed serial numbers.
- Accessories, including batteries.

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