

TECHNICAL DATA

Fluke 975 AirMeter™



Key features

The Fluke 975 offers an unparalleled featureset for HVAC and facilities technicians, helping them work more quickly and accurately, with the ease of use and durability customers expect from a Fluke meter.

Simultaneously measures, logs, and displays temperature, humidity, CO₂, and CO on a bright, backlit LCD display

- One-touch air flow and velocity with available probe*
- Wet bulb and dew point temperature
- % of outside air calculation
- CO₂ and CO field calibration feature
- Self-test function at startup
- Auto-backlight
- Automatically compensates for barometric pressure changes
- Min/Max/Average on all measured and calculated readings
- Multi-language user interface
- Metric or standard units
- Audible and visual threshold alarms
- Extensive discrete or continuous data logging capacity, downloadable to PC via USB interface
- Keypad lock for security
- Included FlukeView Forms® software
- *Included with Fluke 975V, optional with Fluke 975

Product overview: Fluke 975 AirMeter™

One Tool. Get More Done.

The Fluke 975 AirMeter test tool raises indoor air monitoring to the next level by combining five powerful tools in one, rugged and easy-to-use handheld device. Use the Fluke 975 to optimize HVAC ventilation settings for ASHRAE 62 recommendations, actively monitor conditions that promote a productive environment, and quickly and accurately address occupant comfort complaints the first time.

The Fluke 975 measures:

- Temperature
- Velocity
- Humidity
- CO₂
- CO

Use the Fluke 975 AirMeter test tool to:

- Respond to comfort-related calls from occupants.
- Verify the operation of building HVAC control systems.
- Determine whether adequate ventilation exists.
- Monitor air flow and velocity.
- Test for dangerous carbon monoxide leaks.
- Perform duct traversals.
- Optimize HVAC systems to manage energy costs

Specifications: Fluke 975 AirMeter™

Measured Specifications		
Temperature	Range	-20°C to 50°C (-5°F to 122°F)
	Display resolution	0.1°C (0.1°F)
	Accuracy	±0.9°C / ±1.62°F from 40°C to 60°C ±0.5°C / ±1.00°F from 5°C to 40°C ±1.1°C / ±1.98°F from -20°C to 5°C
Relative humidity	Range	10% to 90% RH, non-condensing
	Display resolution	1%
	Accuracy	±2% RH (10% RH to 90% RH)
Air velocity	Range	50.0 fpm to 3000 fpm 0.25 m/sec to 15 m/sec
	Display resolution	1 fpm (0.005 m/sec)
	Accuracy	±4% or 4 fpm ¹ ±4% or 0.02 m/sec ¹ whichever is greater 1. Accuracy specification only valid for velocity readings above 50 fpm.

CO	Range	0 to 500 ppm
	Display resolution	1 ppm
	Accuracy	±5% or ±3 ppm, whichever is greater, @ 20°C and 50% RH
CO ₂	Range	0 to 5000 ppm
	Display resolution	1 ppm
	Accuracy	Warm up time 1 min (5 minutes for full specification) 2.75% + 75 ppm
Calculated Specifications		
Dew point temperature	Range	-44°C to 50°C, (-47°F to 122°F)
	Display resolution	0.1°C (0.1°F)
	Accuracy	±1°C when temp: -20°C to 50°C RH: 40% to 90% ±2°C when temp: -20°C to 50°C RH: 20% to 40% ±4°C when RH: 10% to 20%
Wet bulb temperature	Range	-16°C to 50°C, (3°F to 122°F)
	Display resolution	0.1°C, (0.1°F)
	Accuracy	±1.2°C when RH: 20% to 90% temp: -20°C to 60°C ±2.1°C when RH: 10% to 20%
Volume flow rate (in a duct)	Range	0 to 3,965 M3/m, (0 to 140,000 cfm)
	Display resolution	0.001 M3/min, (1 cfm)
	Accuracy	N/A: The volume flow calculation will be a simple average of the data points times the duct area
% outside air (based on temperature)	Range	0 to 100%
	Display resolution	0.1
% outside air (based on CO ₂)	Range	0 to 100%
	Display resolution	0.1% N/A
General Specifications		
Operating and storage temperature	-20°C to 50°C (-4°F to 122°F)	
Humidity	10% to 90% (non-condensing)	
Altitude	Up to 2000 m (6562 ft)	
Shock and vibration	MIL-PRF-28800F: Class 2	
Multi-language interface	English, French, Spanish, Portuguese and German	
Battery	Rechargeable Li-Ion (primary), three-AA (backup)	
Data logging	25,000 records (continuous), 99 records (discrete)	
Warranty	Two-years	

Ordering information



Fluke 975

Fluke 975 AirMeter™



Fluke. *Keeping your world up and running.*®

Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

For more information call:
In the U.S.A. (800) 443-5853
In Canada (800) 36-FLUKE
From other countries +1 (425) 446-5500
www.fluke.com

©2024 Fluke Corporation.
Specifications subject to change without notice.
03/2024

**Modification of this document is not permitted
without written permission from Fluke Corporation.**