# Fluke 975 AirMeter™

## Five powerful tools in one, with simple one-touch air velocity

## Technical Data

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 hand-held tool. The Fluke 975 AirMeter test tool makes indoor air quality testing easier and faster.

### 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.

### Features:

- Simultaneously measures, logs, and displays temperature, humidity, $CO_2$, 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
- $CO_2$ 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

**Optional Air Velocity Probe**

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## Fluke 975 AirMeter specifications

| Feature | Range | Display resolution | Accuracy |
|---|---|---|---|
| **Measured specifications** | | | |
| Temperature | –20 °C to 50 °C (–5 °F to 122 °F) | 0.1 °F (0.1 °C) | ± 0.9 °C/± 1.62°F from 40 °C to 50 °C<br>± 0.5 °C/± 1.00°F from 5 °C to 40 °C<br>± 1.1 °C/± 1.98 °F from –20 °C to 5 °C |
| Relative humidity | 10 % to 90 % RH non-condensing | 1 % | ± 2 % RH (10 % RH to 90 % RH) |
| Air velocity | 0.50 fpm to 3000 fpm 0.25 m/sec to 15 m/sec | 1 fpm (0.005m/sec) | ± 4% or 4 fpm*<br>± 4 % or 0.02 m/sec* whichever is greater<br>*Accuracy specification only valid for velocity readings above 50 fpm. |
| $CO_2$ | 0 to 5000 ppm | 1 ppm | Warm up time 1 min (5 minutes for full specification)<br>2.75 % + 75 ppm |
| CO | 0 to 500 ppm | 1 ppm | ± 5 % or ± 3 ppm, whichever is greater, @ 20 °C and 50 % RH |
| **Calculated specifications** | | | |
| Dew point temperature | –44 °C to 50 °C (–47 °F to 122 °F) | 0.1 °C (0.1 °F) | ± 1 °C when temp: –20 °C to 50 °C RH: 40 % to 90 %<br>± 2 °C when temp: –20 °C to 50 °C RH: 20 % to 40 %<br>± 4 °C when RH: 10 % to 20 % |
| Wet bulb temperature | –16 °C to 50 °C (3 °F to 122 °F) | 0.1 °C (0.1 °F) | ± 1.2 °C when RH: 20 % to 90 % temp: –20 °C to 50 °C<br>± 2.1 °C when RH: 10 % to 20 % |
| Volume flow rate (in a duct) | 0 to 3,965 $M^3$/m (0 to 140,000 cfm) | 0.001 $M^3$/min (1 cfm) | N/A: The volume flow calculation will be a simple average of the data points times the duct area |
| % outside air (based on temperature) | 0 to 100 % | 0.1 % | N/A |
| % outside air (based on $CO_2$) | 0 to 100 % | 0.1 % | N/A |
| **General specifications** | | | |
| Operating temperature: CO and $CO_2$ sensors | –20 °C to 50 °C (–4 °F to 122 °F) | | |
| Operating temperature: All other functions | –20 °C to 50 °C (–4 °F to 122 °F) | | |
| 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**    AirMeter™
**Fluke-975V**   AirMeter™ with Velocity

**Included**
AA alkaline batteries (3)
Users manual (with safety information)
Calibration cap
Hard carrying case
FlukeView® Forms software
Power adapter
International power plugs
Air velocity probe (Fluke 975V only)


Fluke 975V pictured

## Optional accessories

**ToolPak**™ Magnetic Meter Hanging Kit
**Fluke-975CK AirMeter Calibration Kit**
**Fluke-975VP AirMeter Air Velocity Probe**

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