

## 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.



Optional Air Velocity Probe

#### 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<sub>2</sub>, 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<sub>2</sub> 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

## Fluke 975 AirMeter specifications

| Feature                                                  | Range                                              | Display resolution                   | Accuracy                                                                                                                                 |
|----------------------------------------------------------|----------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Measured specifications</b>                           |                                                    |                                      |                                                                                                                                          |
| Temperature                                              | -20 °C to 50 °C<br>(-5 °F to 122 °F)               | 0.1 °F<br>(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<br>non-condensing                  | 1 %                                  | ± 2 % RH (10 % RH to 90 % RH)                                                                                                            |
| Air velocity                                             | 0.50 fpm to 3000 fpm<br>0.25 m/sec to<br>15 m/sec  | 1 fpm<br>(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 <sub>2</sub>                                          | 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<br>50 % RH                                                                           |
| <b>Calculated specifications</b>                         |                                                    |                                      |                                                                                                                                          |
| Dew point temperature                                    | -44 °C to 50 °C<br>(-47 °F to 122 °F)              | 0.1 °C<br>(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<br>(3 °F to 122 °F)                | 0.1 °C<br>(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 <sup>3</sup> /m<br>(0 to 140,000 cfm) | 0.001 M <sup>3</sup> /min<br>(1 cfm) | N/A: The volume flow calculation will be a simple average<br>of the data points times the duct area                                      |
| % outside air<br>(based on temperature)                  | 0 to 100 %                                         | 0.1 %                                | N/A                                                                                                                                      |
| % outside air (based on CO <sub>2</sub> )                | 0 to 100 %                                         | 0.1 %                                | N/A                                                                                                                                      |
| <b>General specifications</b>                            |                                                    |                                      |                                                                                                                                          |
| Operating temperature:<br>CO and CO <sub>2</sub> sensors | -20 °C to 50 °C (-4 °F to 122 °F)                  |                                      |                                                                                                                                          |
| Operating temperature:<br>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)

## Optional accessories

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



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**Fluke Corporation**  
 PO Box 9090, Everett, WA USA 98206

**Fluke Europe B.V.**  
 PO Box 1186, 5602 BD  
 Eindhoven, The Netherlands

**For more information call:**  
 In the U.S.A. (800) 443-5853 or  
 Fax (425) 446-5116  
 In Europe/M-East/Africa +31 (0) 40 2675 200 or  
 Fax +31 (0) 40 2675 222  
 In Canada (800)-36-FLUKE or  
 Fax (905) 890-6866  
 From other countries +1 (425) 446-5500 or  
 Fax +1 (425) 446-5116  
 Web access: <http://www.fluke.com>

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