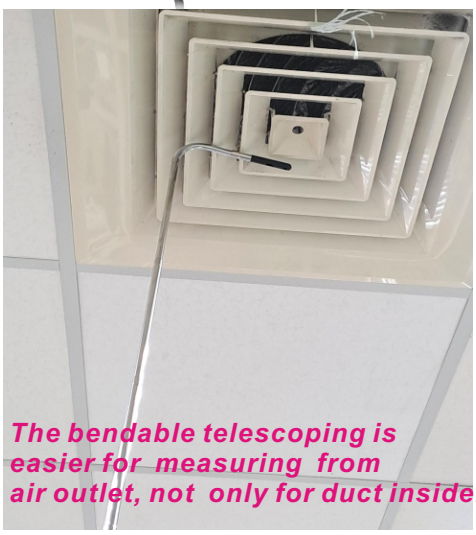
HOTWIRE AIR FLOW METER

NEW

Handheld Hotwire hygro-anemometer with bendable telescope tube 8953

- ■Robust & bendable telescoping hot wire probe. Compact thermal sensor ideal for in-duct measuring to minimizes turbulence effect and suited for low flow & velocity.
- ■Measures velocity, volume flow (cmh, cmm, cfm, l/s), humidity and temperature.
- ■Duct temp. change has limited impact to reading accuracy.
- ■Timed & multi-point average flow calculations.
- ■In-duct air balancing with fast response time
- ■Depth and direction indicators. Hands free magnet



Metric/ Imperial | MAX/MIN | AVG | Low Battery | HOLD | Auto Power Off

Backlight | Tripod Hole | Magnet

Model	8953
Wind speed range	0.15~20.0M/S (30.0 ~3937 ft/m)
Wind speed resolution	Below 10 m/s:0.01, above 10 m/s:0.1 (Below 100 ft/m:0.1, above 100 ft/m:1)
Wind speed accuracy	+/-(5% of reading+0.1) m/s +/-(5% of reading+20) ft/m
Air temp. range	-10.0~50.0°C (14.0~122.0° F)
Air temp. resolution	0.1°C /0.1° F
Air temp. accuracy	+/- 1.0°C , +/- 1.8°F
Humidity range & resolution	5.0~95.0%, +/- 0.1%
Humidity accuracy	+/- 3% (@25°C, 20~80%), +/- 4% (@25°C, 10~20,80~90%),the rest is +/- 7%
Wind speed response time	0.5 second (typical)
Temp./Humidity T90 response time	60 seconds (typical)
LCD update	every second
Air volume display	0 to 99999
Air volume resolution	0.1(0 to 9999.9) or 1 (10000 to 99999)
Air volume unit	cmm, cmh, l/s, cfm
LCD size	26(H)x44(W)mm
Operating temp.	0~50°C
Operating RH%	Humidity<80%
Storage temp.	-10~50°C
Storage RH%	Humidity < 90%
Dimension(mm)	175x70x33 (meter)
Probe	8mm diameter
Telescope tube	93cm (37 inch) extended with 9cm long bendable gooseneck. Total 26.5cm (10 inch) in storage condition
Weight	340 g
Battery	4pcs AAA batteries
Standard Package	Meter with built-in hotwire probe/Battery/ Magnet/Manual/O-rings/Hard carry case

Strong magnet for hands free operation ~

Detachable hotwire probe.

2025.7 V0.2

HOTWIRE HYGRO-ANEMOMETER W/ BENDABLE TELESCOPE TUBE 8953

Comparison of Common Anemometer Types

Feature/Type	Hot-wire	Vane	Pitot Tube
Best for Low Airflow	Excellent	Poor	Not suitable
Response Time	Very fast	Slower	Moderate
Accuracy at Low Speeds	Very high	Limited	Low at low speeds
Directional Sensitivity	Highly sensitivie	Good, but directional	Directional
Size of Sensor Head	Very small	Bulky	Small

Hot-wire anemometers continue to be widely used in professional and scientific fields because they offer unique advantages that other types of anemometers (like vane, ultrasonic, or Pitot tube) cannot easily match.

1. Extremely High Sensitivity

Hot-wire anemometers can detect very low air velocities — even below 0.01 m/s, which is far beyond the capability of vane or Pitot tube types. This makes them ideal for:

Cleanrooms
Laminar flow cabinets
Low-speed airflow studies
Micro-ventilation analysis

2. Fast Response Time

They offer response times in milliseconds, which is essential for measuring rapidly fluctuating or pulsed airflows, such as in:

Combustion chambers
Wind tunnels
Turbulence research

3. Compact and Non-Intrusive Sensor Head

The probe is extremely small and lightweight, allowing it to be inserted into tight spaces without disrupting airflow — unlike bulkier vane sensors.

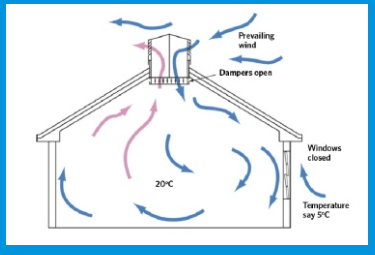
4. Ideal for Lab and Controlled Environments

In applications where precision, repeatability, and data resolution are critical, hot-wire anemometers outperform others.

5. Multi-parameter Integration

Hot-wire models can also integrate temperature and humidity sensors, enabling comprehensive environmental monitoring with a single probe.

Laminar flow cabinets



Ventilation analysis