

407119 Hot Wire Anemometer

Accurate air flow or air velocity measurements plus °F/°C Temperature.



- Measure air velocities as low as 40ft/min
- Telescoping probe is ideal for use in ducts and ventilating system
- Measure air flow plus temperature simultaneously
- Instantaneous or average readings
- Data hold with automatic power off
- Optional Data Acquisition Software and Datalogger

Description

The Hot Wire Anemometer accurately measures air flow in either cubic feet or cubic meters per minute plus temperature. The hot wire anemometer can measure air velocities as low as 40 ft/min. The hot wire air flow meter has a telescoping probe that extends up to 4 feet (1.22m) and is ideal for measuring ducts and ventilating systems.

The Hot Wire Anemometer has a 20 point averaging feature. The large LCD screen on the hot wire anemometer displays air flow or air velocity plus temperature. The hot wire air flow meter can record and recall both minimum and maximum readings. The hot wire anemometer also has a data hold and automatic shut off mode after 15 minutes of inactivity. The hot wire air flow meter has a built in RS-232 PC serial interface for an optional hot wire anemometer datalogger and PC data acquisition and analysis software.

The optional Hot Wire Anemometer Datalogger can record up to 8000 readings with a selectable sampling rate from 1 second to 99 hours. Using the data acquisition software the hot wire anemometer can capture, display, and store readings on a PC. The sampling time of the hot wire air flow meter can be set from 1 second to 60 minutes. The data can be exported to standard spreadsheets.

Specifications

Air Flow:
CMM: Range: 0 – 36,000 m³/min, Resolution: 0.001 to 1, Area: 0.001 to 30.0 m²
CFM: Rng: 0 – 1,271,200 ft³/min, Res: 0.01 to 100, Area: 0.01 to 322.91ft²
Air Velocity:
m/s: Rng: 0.2 – 17.0 m/s, Res: 0.1, Accuracy: ±(5% + 5 digits)
ft/min: Rng: 40 – 3346 ft/min, Res: 1, Acc: ±(5% + 100 digits)
Air Temp: Rng: 32 to 122°F (0 to 50°C), Res: 0.1°F/°C, Acc: ±1.5°F (0.8°C)
Display: Dual function 5-digit LCD
Measurement units: Air Velocity: m/s, km/h, ft/min, knots, mph;
Air Flow: CMM (m³/min) and CFM (ft³/min); Temperature: °C and °F
Data hold: Freezes displayed reading
Sampling rate: Display update rate: 1 second (approx.)
Sensors: Air velocity and temperature sensors: Thermistor type
MAX/MIN Memory: Record and view Maximum and Minimum readings
Average feature: Averages up to 20 readings
Automatic Power off: Auto shut off after 15 minutes
Data Output: RS-232 PC serial interface with 16-bit data stream output
Operating Temp.: 32 to 122°F (0 to 50°C)
Operating Humidity: Max. 80% Relative Humidity
Power Supply: Four (4) 'AA' 1.5V batteries or optional AC adaptor
Power Current: 70mA DC (approx.)
Weight (meter only): 1.15 lbs. (521g) with batteries installed
Dimensions: Main instrument: 7.9 x 3.0 x 1.5" (200.0 x 76.2 x 36.8mm)
 Telescoping Sensor: 0.5" (12.7mm) diameter head
 Min length of sensor: 8" (260mm); Max. length: 37" (0.94m) with 5.5' (1.7m) cable

Options and Accessories

407119 Hot Wire Anemometer

407001 Data Acquisition Software

380340 Hot Wire Anemometer Datalogger

140001 Hot Wire Anemometer Hard Vinyl Carrying Case

Contact
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for all your
instrumentation
needs:

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