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Quattro Flow

Air Velocity Analyzers

Specifications

Carrying case and Universal Power Supply are included with the Quattro Flow. Additional probes, AccuTrac software, Printer, Wand and Grid can be purchased separately.

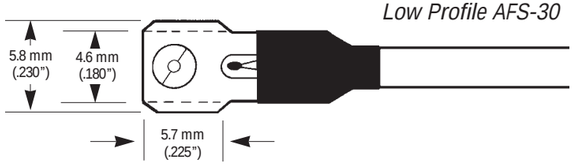
Quattro Flow Series operating information	
Input voltage	90-265 VAC, 50-60 Hz
Power consumption	60 Watt max
Operating temperature range	0 to 70º C
Operating temperature range for specified system accuracy with probes	10 to 35º C
Storage temperature range	-20 to 100º C
Readout	16 x 4 Character LCD display
Weight	1.00 kg (2.20 lbs)
Dimensions	15.5 cm L x 15.5 W x 8.5 cm H
Keypad	6-Key touchpad with audible indicator
Density compensated from 0-10,000 ft AMSL	

AFS Series Airflow Sensors Information	
AFS airflow ranges	.1 to 5 m/s (20 to 1000 fpm)
Acceptance angle	± 25º typical
Standard shielded cable length	2 meters
Operating temperature range	0 to 70º C
Storage temperature range	-20 to 100º C
Additional cable lengths and optional grid available	
Accuracy at 21º C (70º F) ± 3% of reading / from 10 to 35º C (50 to 95º F) ± 5% of reading	
0-10º C (32-50º F) and 35-70º C (95-158º F) ± 10% of reading	

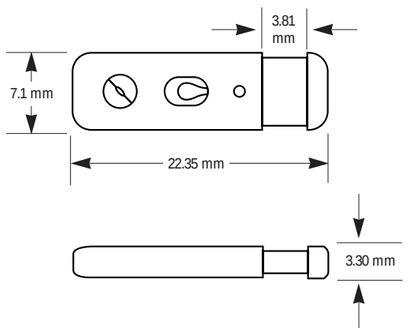
Part Numbering Scheme

AFS	XX	X
AFS AIR FLOW SENSOR	**SERIES** 30 = Low-profile Sensor 300 = Clip-on Sensor	**CABLE LENGTH** Leave blank for 2m 5= 5m

Low Profile AFS-30



Clip-on Series AFS-300



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Cambridge AccuSense, Inc.

Quattro Flow

Air Velocity Analyzers

Mobile Multipoint Evaluation



Four sensor ports allow designers and certifiers to obtain real-time, multipoint snapshots of the airflow environment.



The Cambridge AccuSense Quattro Flow Velocity Analyzer is a mobile unit designed for accurate, cost-effective multipoint evaluation. Portable and self-contained, the Quattro Flow is powered by internal rechargeable batteries that allow for up to eight hours of continuous use. The full package consists of a lightweight measurement instrument with four sensor ports, a choice of low-profile or clip-on ruggedized AFS airflow sensors and optional printer.

Whether used alone or in conjunction with Cambridge AccuSense AccuTrac Software, the Quattro Flow provides a reliable, efficient answer to the needs of thermal designers, certifiers and field support personnel.

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Cambridge AccuSense, Inc.

Quattro Flow

AFS Series of Air Velocity Sensors

Features

– Interchangeable
– Rugged construction
– Reliable
– Low intrusion
– Individually calibrated
– Choice of sensor packages



Low-profile, minimized AFS sensors are easily mounted on a PC board to validate thermal design and performance.

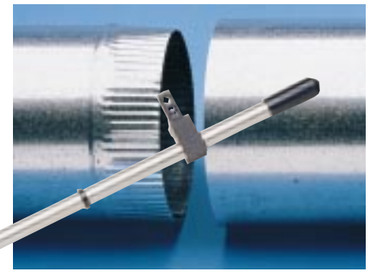
The Cambridge AccuSense AFS series are thermistor-based, interchangeable sensors, designed to address the weakness of traditional single-point probes. On-line circuitry normalizes the performance of each sensor, providing a unique advantage — in the event a sensor ever needs to be removed, another sensor can be immediately plugged in, and measurements can continue without any field calibration.

The solid-state construction of these glass-encapsulated sensors assures ruggedness and reliability at all times, making the AFS resistant to the rigors of laboratory or field use without loss of accuracy. A low-profile probe design causes minimal distortion of the true air velocity picture, while allowing access to hard-to-reach locations, including printed circuit boards inside electronic enclosures.

AFS package choices include clip-on sensors that can be attached to an optional grid or affixed at intervals to a wand for efficient measurement of airflow in fume hoods or safety cabinets. Also available are smaller probes that can be mounted in restricted locations — such as printed circuit boards— to provide air velocity and air temperature data.



Clip-on AFS sensors can be attatched to an optional wand for hand-held operation.





Quattro Flow Versatility

The Cambridge AccuSense Quattro Flow is a powerful, complete, yet cost-efficient air velocity and air temperature instrument. Its portability allows the user to perform real-time data collection and analysis at the lab or in the field, and to complete measurements in a fraction of the time it would take with conventional, single-point measurement technology.

The highly efficient Quattro Flow features the proven accuracy, reliability and versatility characteristics of all the Cambridge AccuSense line of airflow analysis technology, and makes it available for a low investment. Applications ranging from electronics cooling design, cleanroom, fume hood and safety cabinet design and testing to HVAC room balancing and duct testing can benefit from this technology.

Unlike most anemometers, which will "underread" at higher elevations, the Quattro Flow is density-compensated and provides a TRUE air velocity reading, corrected for altitudes up to 10,000 feet. The Quattro Flow is compatible with AccuTrac, the Windows™-based software for thermal design and validation developed by Cambridge AccuSense. Air velocity and air temperature data collected by the Quattro Flow can be displayed, saved, reviewed, graphed and printed without having to export the information to another program. Frequent returns and field re-calibration are avoided, since the user can easily verify the operation and accuracy of any one AFS sensor and its channel by checking it against the other three sensors.



Simple to operate, integral keypad. Easy to read, real-time display of all four channels.

Features

– Portable unit, measures on-the-go
– Internal rechargeable battery with separate external charger.
– Real-time air velocity and air temperature data
– Density compensated
– Simultaneous, multipoint measurements, accepts up to four AFS sensors
– Compatible with AccuTrac software
– Interfaces to RS-232 or optional printer



Biosafety cabinet courtesy of The Baker Company

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Cambridge AccuSense, Inc.

Quattro Flow

AFS Series of Air Velocity Sensors

Features

– Interchangeable
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Low-profile, minimized AFS-30 sensors are easily mounted on a PC board to validate thermal design and performance.

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Clip-on AFS-300 sensors can be attatched to an optional wand for hand-held operation.



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Quattro Flow

Air Velocity Analyzers

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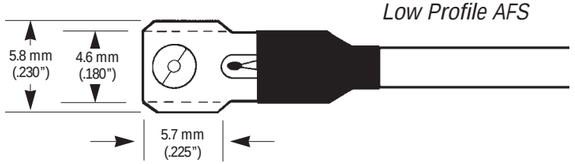
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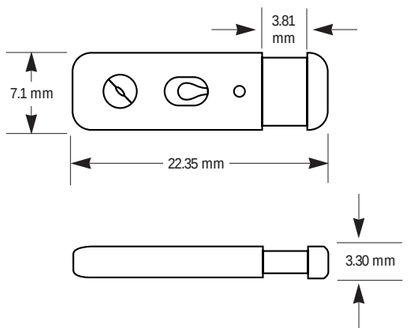
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AFS airflow ranges	see insert sheet
Acceptance angle	± 25º typical
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Operating temperature range	0 to 70º C
Storage temperature range	-20 to 100º C
Additional cable lengths and optional grid available	
See insert sheet for accuracy specifications	

AFS	XX	X
AFS AIR FLOW SENSOR	SERIES	CABLE LENGTH

Low Profile AFS



Clip-on Series AFS



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Quattro Flow

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AFS Sensors

LOW-PROFILE - similar to CAFS sensor head

30-150 fpm (0.15 - 0.75 m/s) +/- 10% of reading from 0-70°C

AFS-10	2 meter shielded cable
AFS-10-5M	5 meter shielded cable

150-1000 fpm (0.75 - 5 m/s) +/- 10% of reading from 0-70°C

AFS-20	2 meter shielded cable
AFS-20-5M	5 meter shielded cable

1000-3000 fpm (5 - 15 m/s) +/- 10% of reading from 0-70°C

AFS-40	2 meter shielded cable
AFS-40-5M	5 meter shielded cable

CLIP-ON Sensors for room temperature applications

30-150 fpm (0.15 - 0.75 m/s)

+/- 8 fpm from 30-60 fpm

AFS-100	2 meter shielded cable
AFS-100-5M	5 meter shielded cable

5% of reading @21°C from 60-150 fpm
+/- 8 fpm from 30-60 fpm

AFS-100-W5	2 meter shielded cable
AFS-100-5M-W5	5 meter shielded cable

150-1000 fpm (0.75 - 5 m/s)

AFS-200	2 meter shielded cable
AFS-200-5M	5 meter shielded cable

5% of reading @21°C from 150-1000 fpm

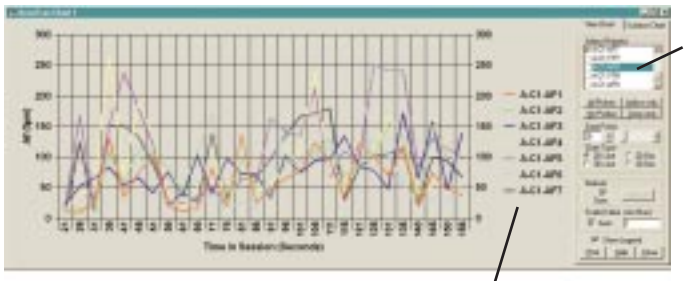
AFS-200-W5	2 meter shielded cable
AFS-200-5M-W5	5 meter shielded cable

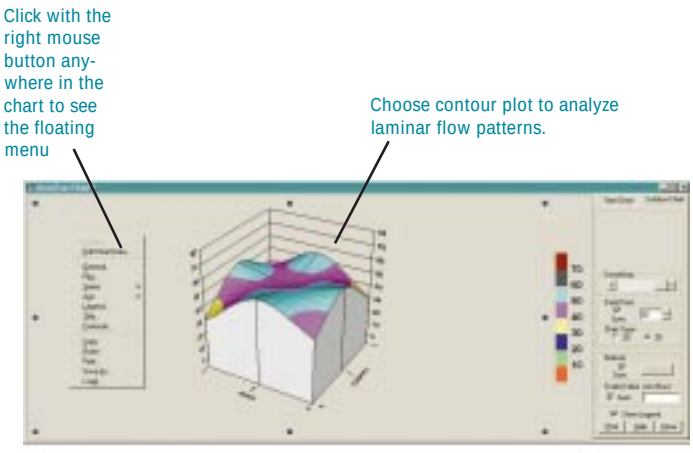
1000-3000 fpm (5 - 15 m/s)

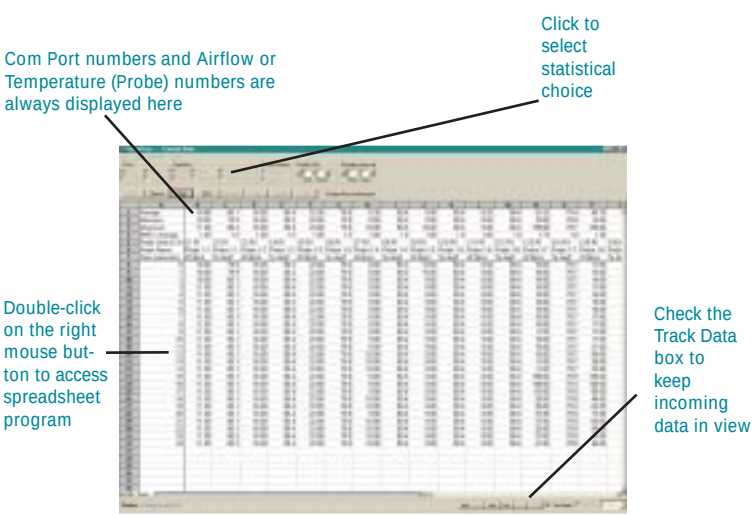
AFS-400	2 meter shielded cable
AFS-400-5M	5 meter shielded cable
AFS-400-W5	2 meter shielded cable
AFS-400-5M-W5	5 meter shielded cable

AccuTrac Software rev 4.0

Developed by Cambridge AccuSense for use with the ATM-24, TCM-24, FVA Series and Quattro Flow Velocity Analyzers.







The Windows™-based AccuTrac Software package from Cambridge AccuSense turns your PC into a powerful test and analysis center. Airflow, temperature and surface temperature data acquired by any Cambridge AccuSense instrument can now be displayed, saved, reviewed, graphed and printed without having to export the information to another program.

The user-friendly AccuTrac increases measurement versatility, reduces testing time and improves testing flexibility. AccuTrac allows you to connect up to four instruments. However, users can choose whether all data are to be viewed and graphed real-time, or saved and reviewed later. Increased flexibility is also achieved by viewing any number of samples. Files are saved in Excel spreadsheet format for use with other programs.

The latest AccuTrac version communicates directly with the ATM-24, TCM-24, FVA & Quattro Flow to automatically set up sampling times and measurement units, eliminating the need to set parameters in another terminal program. System requirements are Pentium 166 processor, 24 MB of RAM, 15MB of free disk space and CD ROM to install.

KEY FEATURES

- All-in-one package — no need to export data to other programs. Print graphs at any time during the test, or cut and paste into other programs. Full spreadsheet and graphing program included.
- Real-time graphing— analyze information as measurements are being taken.
- Wide analytical range — statistical options include average, min/max, and standard deviation and root mean square.
- Power — access multiple graphs simultaneously, go back to saved files as needed to view other probes or to re-examine test data.
- Data protection — immune to power interruptions, logged data is automatically saved as measurements are being taken.
- Versatility — Automated or manually-set axis control, data viewing and sensor labelling.
- Efficiency — graph all the various statistical measurements.
- User-friendly — Simply click on a probe to automatically graph its data.

For more extensive technical information on this software or other AccuSense products including the ATM-24, TCM-24, FVA and the Quattro Flow, please call our sales department.

Cambridge AccuSense, Inc.

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