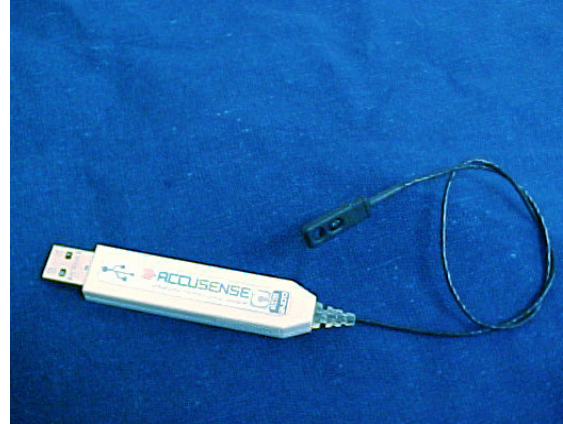


Airflow and Airflow Temperature Sensors for the ATM2400 Measurement System

Features

- *UAS1000 measures air velocity and airflow temperature simultaneously*
- *Sensors connect to the ATM2400 data hub*
- *Easy to use – just plug in and start measuring*
- *Validate thermal and airflow models quickly and accurately*
- *Small sensors to reach distant and compact locations*
- *±5% of reading accuracy from 0-70°C*
- *Fully interchangeable with one another*
- *3 sensor head options*



About the UAS Series

The AccuSense UAS1000 Series is an air velocity and air temperature sensor used with the new ATM2400 Measurement System. The new UAS1000 Series offers many improvements with regards to accuracy and sensor ranges.

With a variety of sensor ranges from 0.15 m/s to 20 m/s (30-4000 fpm), the AccuSense UAS1000 Series offers such features as unimpeded access to tight locations, improved measurement accuracy with ±5% of reading from 0°C to 70°C, ease of installation, multipoint measurement, rugged construction, and probe interchangeability.

3 unique sensor head styles, remotely located on a 5 meter shielded cable, allow access in distant and compact locations such as between semiconductor devices, heat sinks, and inside ducts and plenums. These small heads cause minimal distortion of the true airflow picture, and air velocity and airflow temperature measurements are obtained at the same time.

The AccuSense UAS1000 Series sensors are also fully interchangeable with one another, as each sensor has its own on-line circuitry normalizing the performance of each sensor.

Simultaneous use of up to 36 UAS sensors with the ATM2400 data hub allows the user to have a snapshot of the airflow environment at any given time. Multiple ATM2400's can also be connected together to obtain up to 100 data points. For surface temperature measurement, please refer to the UTS1000/2000 Thermocouple Sensors datasheet. Both the UAS1000 and UTS1000/2000 can be used simultaneously with the ATM2400 data hub to obtain airflow, air temperature, and surface temperature in one instrument.

UAS Series Airflow & Temperature Measurement

Standard medium is air at standard pressure (101.3 kPa, 29.95" Hg). For use with other gases, please contact Degree Controls. Altitude compensation is available in AccuTrac 5.0 software

UAS1100 0.15 – 1.0 m/s (30 - 197 fpm)
 UAS1200 0.50 – 5.0 m/s (99 - 985 fpm)
 UAS1300 4.50 - 20 m/s (887 - 3940 fpm)

Air Velocity Accuracies

0-70°C Greater of ±5% of reading or 1% full-scale
 Repeatability is ±1% under same conditions

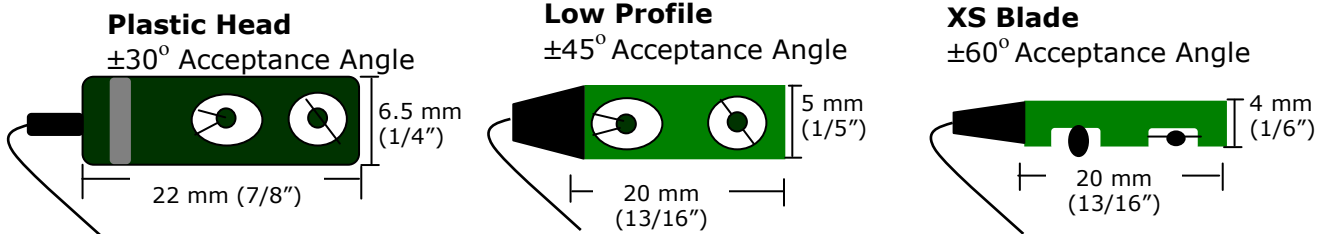
Airflow Temperature Accuracies

0-70°C ±1°C
 Repeatability is ±1% under same conditions

UAS1000 Series General Specifications

Operating temperature	0°C to 70°C
Storage temperature	-20°C to 80°C
Relative humidity (non-condensing)	5-95%
Warm-up time after power up	Less than 5 seconds
Supply voltage	Supplied by ATM2400 data hub

Sensor Head Options



Standard cable length is 5 meters shielded from connector to sensor head

Part Number Format

UASXXXXXX

1100 0.15 – 1.0 m/s
1200 0.50 – 5.0 m/s
1300 4.50 – 20 m/s

PC Plastic Head
LP Low Profile
XS Blade

ATM2400 & UTS1000 sold separately.

Specifications subject to change without notice