

## 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 ATM2400 Measurement System.

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.

The UAS1000 offers three unique sensor head styles, remotely located on a 5 meter shielded cable, to provide 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, since 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 be connected together to obtain up to 100 data points. For surface temperature measurement, please refer to the UTS1000 Thermocouple Sensor datasheet. The UAS1000 and UTS1000 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. UAS sensors may not be suitable for gases with a low flash point. Altitude compensation is available in AccuTrac 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

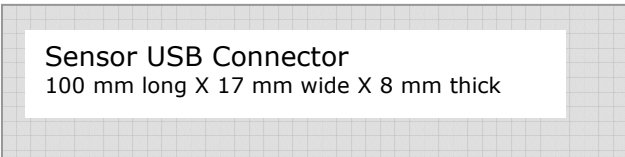
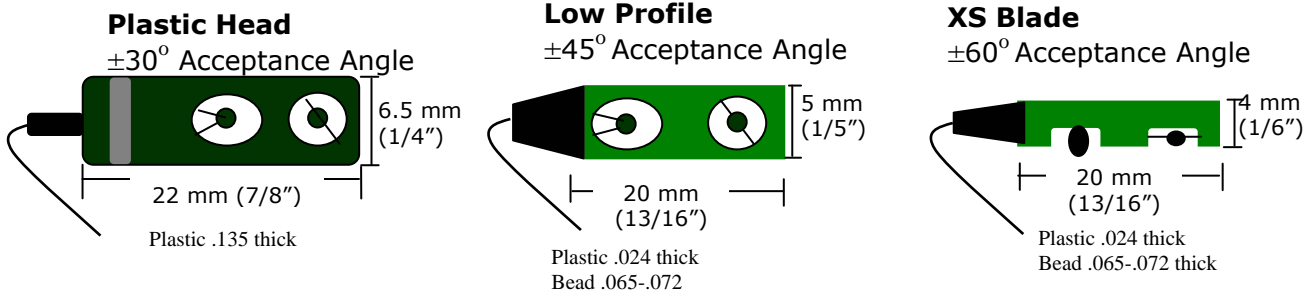
**Airflow Temperature Accuracies**

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**

*ATM2400, UTS1000 & UHS1000 sold separately.*

- 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

*Specifications subject to change without notice*