

## **Worlds Smallest Remote Air Flow Sensor!**

### **UAS2000 $\mu$ – Micro Profile Sensor**

#### **PRELIMINARY DATASHEET**

## *UAS2000 $\mu$ Series*

#### **Features**

- *UAS2000 $\mu$  measures air velocity and airflow temperature simultaneously*
- *Measure flow in tight locations previously not feasible.*
- *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*
- *Greater of  $\pm 10\%$  of reading, or 5% of full scale accuracy from 15-60°C*



#### **About the UAS1000 $\mu$ Series**

The AccuSense UAS2000 $\mu$  Series is an air velocity and air temperature sensor used with the ATM2400 Measurement System. Developed to meet the thermal profiling needs of ever shrinking electronics systems, accurate measurements can now be made in areas previously considered too small.

With a range from 0.50 m/s to 10 m/s (99-1960 fpm), the AccuSense UAS2000 $\mu$  Series offers such features as unimpaired access to tight locations, improved measurement accuracy with  $\pm 5\%$  of reading, or 10% of full scale, from 15°C to 60°C, ease of installation, multipoint measurement, and probe interchangeability.

The unique omni directional micro sensor head, remotely located on a 3 meter cable, allows access in distant and compact locations such as between semiconductor devices, heat sinks, and inside ducts and plenums. This extremely small head causes minimal distortion of the true airflow picture, and air velocity and airflow temperature measurements are obtained at the same time.

The AccuSense UAS2000 $\mu$  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. For surface temperature measurement, please refer to the UTS1000 Thermocouple Sensors datasheet. For humidity measurements please refer to the UHS1000 datasheet. The UAS1000 series, UAS2000 $\mu$ , UTS1000 and UHS1000 can be used simultaneously with the ATM2400 data hub to obtain airflow, air temperature, humidity and surface temperature in one instrument. Choose the size of the UAS sensor that best fits your requirements.

## 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

UAS2000μ 0.50 – 10.0 m/s (99 - 1960 fpm)

### Air Velocity Accuracies

15-60°C Greater of ±10% of reading or 5% full-scale, repeatability ±5% under same conditions

### Airflow Temperature Accuracies

0-60°C ±3°C

Repeatability is ±1% under same conditions

## UAS1000 Series General Specifications

Operating temperature	15°C to 60°C
Storage temperature	-40°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 USB Connector  
100 mm long X 17 mm wide X 8 mm thick

Standard cable length is 3 meters from connector to sensor head

## Part Number Format

**UASXXXXμ**

**2000** 0.50 – 10.0 m/s

**ATM2400, UAS1000, UHS1000 & UTS1000 sold separately.**

**Specifications** subject to change without notice