

Your Partner for Airflow Sensing & Controls

UAS1000

Features

- UAS1000 measures air velocity & airflow temperature simultaneously
- Sensors connect to the °C Port data acquisition instruments
- Easy to use just plug in & start measuring
- Validate thermal and airflow models quickly & accurately
- Small sensors to reach distant & compact locations
- Fully interchangeable with one another
- 7 sensor head options

Degree Controls, Inc.

is an ISO-9001 certified, world-class designer and manufacturer of airflow sensing, monitoring, and control solutions. With over 20 years of proven experience, we pride ourselves on delivering solutions which provide the value, differentiation, and service required by our customers, to meet the rapidly changing competitive landscape that they face.

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Overview

The UAS1000 Series is an air velocity and air temperature sensor used with the °C Port3600/ °C Port1200 Measurement Systems.

With a variety of sensor ranges from 0.15 m/s to 20 m/s (30-4000 fpm), the UAS1000 Series offers such features as unimpaired access to tight locations, improved measurement accuracy, 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 profile, and air velocity and airflow temperature measurements are obtained at the same time. The 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 °C Port3600/ °C Port1200 data acquisition systems allows the user to have a snapshot of the airflow environment at any given time. Multiple °C Port3600's/°C Port1200's can be connected together to obtain up to 100 data points.

For surface temperature measurement, please refer to the UTS1000 Thermocouple Sensor datasheet.

Humidity sensing is available with the UHS1000. UAS1000, UTS1000, and the UHS1000, can be used simultaneously with the °C Port3600/°C Port1200 to obtain airflow, air & surface temperature, and humidity in one instrument.









Additional Sensor Head options for UAS1000. Order from top to bottom: Plastic Cap (PC), Low Profile (LP), & Extra Small (XS)





Temperature Compensation Range: The UAS-1000 is a thermal airflow sensor; it is sensitive to changes in air density and indicates velocity with reference to a set of standard conditions 25°C (77°F), 760mmHg (101.325kPa), and 0%RH. The UAS-1000 has been designed so that when used over the stated temperature compensation range, the sensor indicates very close to actual air velocity and minimal compensation is only required to account for changes in barometric pressure or altitude.

Accuracy: Valid between 15-35°C (60-95°F), increasing by $\pm 0.25\%$ per degree and ± 0.005 m/s (1fpm) over remaining temperature compensation range.

¹Above 0.5m/s (100fpm), ±1.5°C (2.7°F) below 0.5m/s (100fpm).

Part Number Format

UASXXXXXX

11000.15 - 1.00 m/s (30 - 200 fpm)12000.50 - 5.0 m/s (100 - 1000 fpm)13004.50 - 20.0 m/s (900 - 4000 fpm)15000.15 - 20.0 m/s (30 - 4000 fpm)

Plastic Cap (PC)	W 1	1.25" Wand Head
Low Profile (LP)	W3	3" Wand Head
Extra Small Blade (XS)	W5	5" Wand Head
	W7	7" Wand Head



INSTRUMENTS

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