

36 Channel, Web-Enabled, Air Flow and Temperature Measurement Instrument - °C Port3600

features

- Turn your Windows-based PC into a powerful air velocity and temperature measurement instrument with a °C Port3600 and Accutrac™ Plus software.
- Network interface and web portal with multi-user sharing and remote monitoring of experiments by any smartphone, tablet or PC.
- Collect air flow data in real-time from up to 36 locations, simultaneously.
- Compatible with Degree Controls' Accusense series of USB sensors, for air velocity, temperature, thermo-couple and humidity testing.
- Best-in-class, miniature sensors designed for measurement with minimal disruption to flow profile.



°C Port3600, 36-port Data Collection & Ethernet Network Instrument

UAS1000 = Airflow & Airflow Temperature

UTS1000 = Surface Temperature

UHS1000 = Humidity



description

The °C Port3600 is a reliable and easy to use 36-channel airflow measurement instrument, specifically designed for the demands of multi-point air velocity and air temperature testing. The Accutrac™ Plus software, included with your °C Port3600, can turn your Windows-based PC into a powerful data acquisition and reporting system.

The °C Port3600's internal pressure and humidity sensors which compensate for changing ambient conditions during a test, allow the user to get the very best accuracy of readings, extracting the full value from your multi-point sensors.

With the Network enabled interface, the °C Port3600 plugs into your Ethernet network just like another PC, to allow sharing of real-time experimental results, and web portal functionality, allowing a user to access the experiment over smartphone or tablet interface. Multiple users can log in simultaneously.

For complete air flow experimentation, temperature and humidity sensors are also available to plug into your °C Port3600. User preferences allow data logging

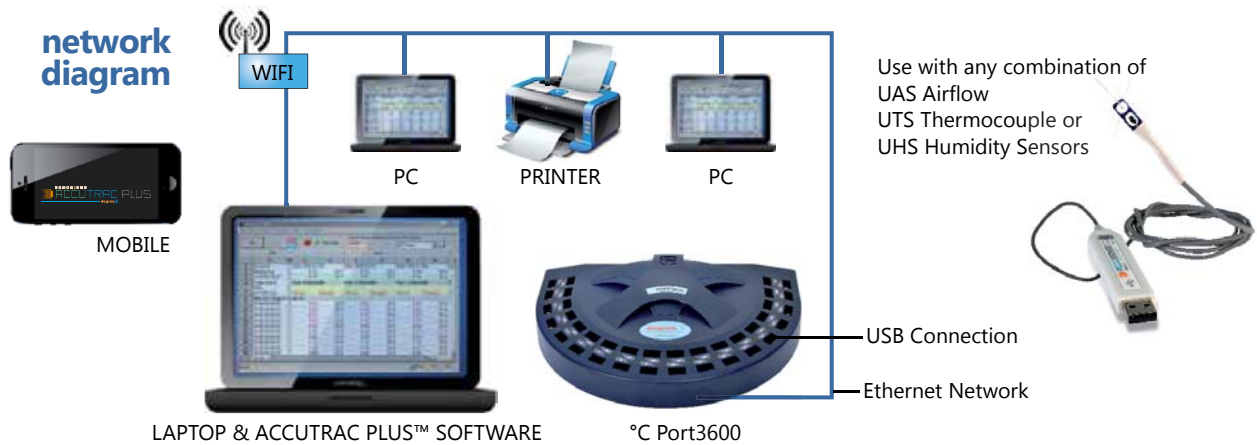
at different polling rates, and with different units of measure and time stamps. The data logged results are recorded on the local PC or remote drive.

The °C Port3600 & Accutrac™ system works well in front of an audience with automatic graphing functions that demonstrate air flow profiles; useful for visualizing, sharing, or educating a diverse audience.

With port numbering, channel recognition and custom labels, the °C Port3600 takes full advantage of multi-point sensing, so exporting to Excel or a mathematical tool is simple and fast - with full retention of the different streams of data tags.

The °C Port3600 is a precise experimental measurement instrument, and ships to you in a rugged carrying case equipped with the °C Port3600 Instrument, power supply, manual and quick start guide, with plenty of room for your sensor storage. Designed for quick deployment and mobility, you will find the °C Port3600 Measurement Systems an invaluable companion.

36 Channel, Web-Enabled, Air Flow and Temperature Measurement Instrument - °C Port3600



specifications

Part Number:	SH65100
Ports:	Power, Ethernet, IP Address Switch, 36-Channel USB
LEDs	Power Indicator, Communication Ready Indicator
PC Support	Windows XP, Windows 7 and Windows 8
Supported Software	Accutrac™ Plus
Country of Origin	Made in USA

environmental

Dimensions	30 cm x 22 cm x 7 cm [11.7" x 8.5" x 2.8"]
Unit Weight	1.1 Kg [2.4 lbs.]
Power	100-250VAC, 50/60Hz, 2A max
Certifications	CE
Operating Temperature	10 to 40°C (50 to 104°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Operating Humidity	10 to 80%, relative humidity, non-condensing
Storage Humidity	5 to 90% non-condensing

computer requirements

Ethernet enabled Windows® PC with AccuTrac™ Plus software

part number SH65100

Purchase of °C Port3600 includes °C Port Hub, power supply, carrying case, AccuTrac™ software, sensor mounting clips, and user manual.

USB Series UAS, UTS & UHS sensors are sold separately.

°C Port 3600 Kit

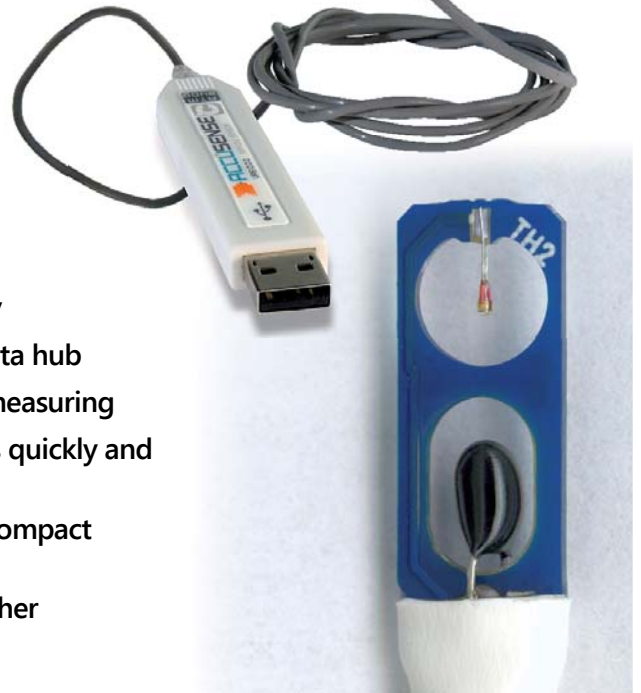




Airflow and Airflow Temperature Sensors for the ATM2400 Measurement System

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
- Fully interchangeable with one another
- 3 sensor head options



overview

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 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 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. Humidity sensing is available with the UHS1000. UAS1000, UTS1000, and the UHS1000, can be used simultaneously with the ATM2400 data hub to obtain airflow, air & surface temperature, and humidity in one instrument.



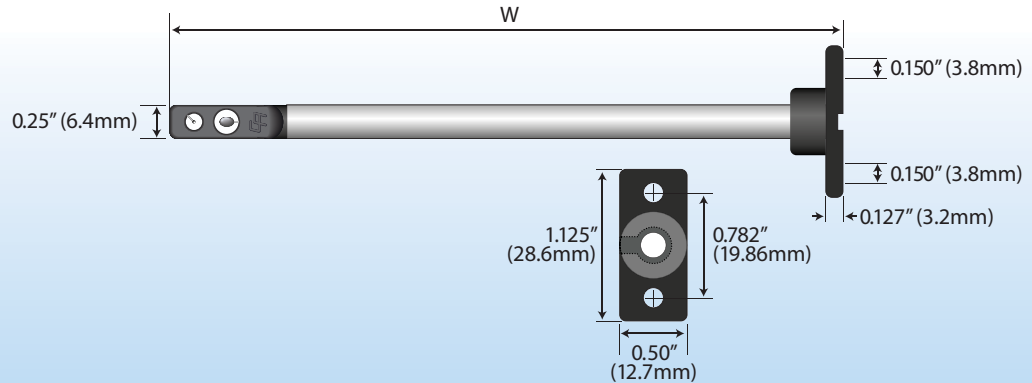
ATM2400 Data Acquisition Hub for USB Sensors

UAS-1000 Air Flow and Air Flow Temperature Sensors

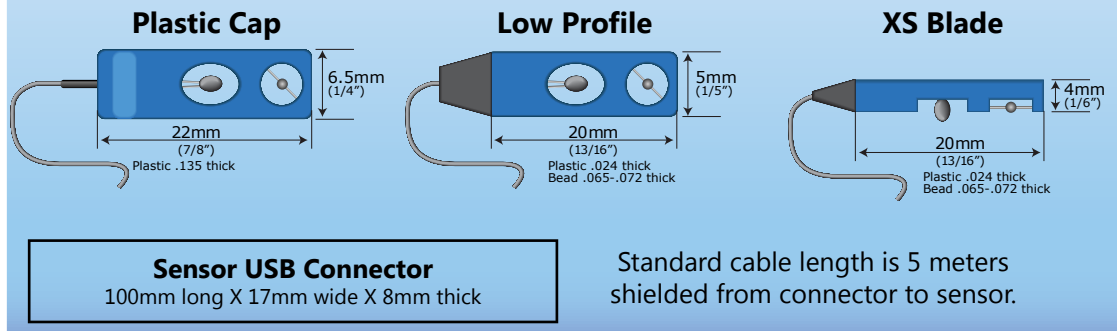
specifications

Operating temperature	0°C to 70°C
Storage temperature	-40°C to 85°C
Relative humidity (non-condensing)	5-95%
Warm up time after power up	Less than 5 seconds
Supply voltage	Supplied by the ATM data hub

sensor wand specifications



sensor head options



Air Velocity _____

Temperature compensation range: 0-70°C (32-158°F):

Accuracy: ±5% of reading or ±0.05m/s (10fpm) or 1% of FS

Repeatability: ±1% of reading

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. Changes in relative humidity have a minimal impact and can usually be ignored.

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

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

Airflow Temperature _____

Measurement range: 0-70°C (32-158°F)

Measurement Accuracy¹: ±1°C (1.8°F)

Resolution: ±0.1°C

UASXXXXXX

1100 0.15 – 1.00 m/s (30 – 200 fpm)

1200 0.50 – 5.0 m/s (100 – 1000 fpm)

1300 4.50 – 20.0 m/s (900 - 4000 fpm)

PC Plastic Cap

LP Low Profile

XS Extra Small Blade

W1 1.25" Wand Head

W3 3" Wand Head

W5 5" Wand Head

W7 7" Wand Head

Special Wide Range Application UAS Sensor - new product offering

1500 0.15 – 20.0 m/s (30 - 4000 fpm) - This style sensor approved for EnergyStar™ testing for ceiling fan systems