

NEW!! 36 Channel Multipoint Airflow & Temperature Measurement System

Features

- Connect 36 air velocity and airflow temperature sensors (UAS1000 Series) and/or thermocouple sensors (UTS1000 Series)
- Validate thermal and airflow models quickly and accurately
- Measure Air & Temperature in multiple locations simultaneously
- Small sensors access remote and compact locations
- USB connection to PC
- New and improved AccuTrac software included
- Easy to use – just plug in and start measuring
- Airflow measurement accuracy 5% of reading from 0°C to 70°C



About the ATM2400

Multipoint measurement of air velocity as well as air and surface temperature are crucial steps in the new product development process. These measurements, however, have traditionally been inexact, labor-intensive, repetitive and tedious. The new AccuSense ATM2400 has been designed to reduce cost, increase efficiency, improve accuracy and compress testing and evaluation time. Furthermore, the ATM2400 expands on the capabilities of its predecessor, the ATM-24, with the inclusion of thermocouple sensors, improved airflow sensor accuracy, enhanced AccuTrac 5.0 software as well as an additional 12 channels.

The ATM2400 now allows you to perform simultaneous measurement of air velocity and of airflow and surface temperatures at 36 locations. Multiple ATM's can be connected together to measure up to 100 points. The information is recorded real-time, and can be analyzed as data is being collected. The ATM2400 uses the UAS Series of Airflow Sensors and UTS Series of Thermocouple Sensors. Improved air velocity accuracy to $\pm 5\%$ of reading from 0°C to 70°C further enhances the ATM2400's performance.

AccuTrac 5.0, a powerful Windows-based software package, comes with the ATM2400. With real-time graphing and statistical analysis, AccuTrac's new capabilities also include the ability to set testing time length, display calibration date of sensors, and alarm when collected data is outside of the sensor calibration range. The sampling rate is now as fast as 10 readings per second. All data is saved in Excel compatible files.

Typical applications include thermal analysis of electronics in computer and telecommunications equipment, validation of CFD (Computational Fluid Dynamics) airflow and temperature modeling, airflow analysis in automotive compartments, containment enclosures, and architectural modeling.

Whether you are determining the number of fans, analyzing airflows around critical components, or validating software prediction models, the ATM2400, from AccuSense, the renowned expert in airflow sensing, is the new gold standard for multipoint airflow and temperature monitoring.

Block Diagram



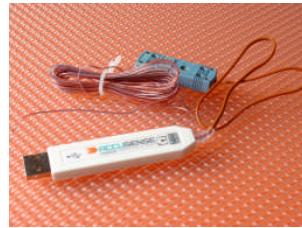
Airflow Measurement

Refer to the UAS1000 datasheet for airflow and airflow temperature measurement details.



Temperature Measurement

Refer to the UTS1000 datasheet for surface temperature measurement details.



Specifications

Operating temperature	10°C – 40°C for the ATM2400 hub
Storage temperature	-20°C – 70°C
Relative humidity (non-condensing)	5-95%
Supply voltage	92-240VAC, 50-60 Hz internal power supply. Power cord included
Density correction	Via AccuTrac 5.0 software
Sampling rate	0.1 seconds to 60 minutes

Mechanical Specifications

Dimensions	235 mm long X 300 mm wide X 35 mm high
Weight	2.5 kg

PC Requirements

USB 1 or 2: See AccuTrac 5.0 datasheet for specific AccuTrac details

Part Number Format

ATM2400

Purchase of ATM2400 includes ATM2400 Hub, power supply, carrying case, AccuTrac software, sensor mounting clips, user manual. UAS & UTS sensors are sold separately.