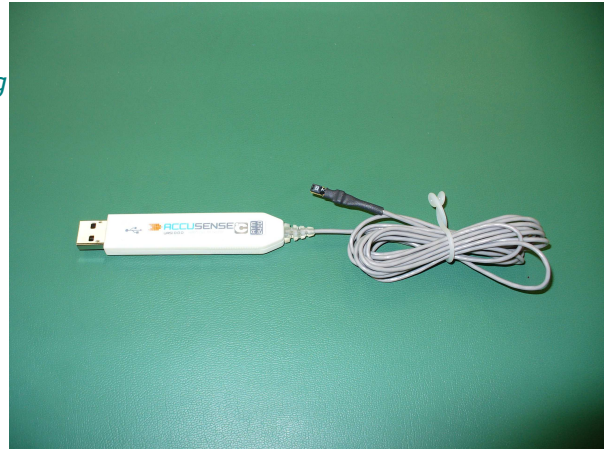


**PRELIMINARY Datasheet**  
USB Humidity Sensors for the ATM2400  
System

*UHS1000  
Series*

**Features**

- *UHS1000 measures relative humidity and temperature simultaneously*
- *Sensors connect to the ATM2400 data hub*
- *Easy to use – just plug in and start measuring*
- *Validate RH and temperature quickly and accurately*
- *Small sensors to reach distant and compact locations*
- *±3% RH Absolute accuracy from 10-90%RH*
- *Fully interchangeable with one another*
- *RoHS6 and lead-free*



**About the UHS Series**

The AccuSense UHS1000 Series is the newest USB based relative humidity and temperature sensor used with the ATM2400 Measurement System.

The AccuSense UHS1000 Series offers such features as unimpeded access to tight locations, improved measurement absolute accuracy of  $\pm 3\%$  RH reading from 10 to 90% RH, ease of installation, multipoint measurement, rugged construction, and probe interchangeability.

The sensor comes with a 1 meter shielded cable, to allow access in distant and compact locations such as between semiconductor devices, heat sinks, and inside ducts and plenums. These small heads cause minimal disturbance to the airflow pattern and both relative humidity and airflow temperature measurements are obtained at the same time.

The AccuSense UHS1000 Series sensors are the newest in our family of USB based sensors, fully interchangeable with one another since sensor has its own on-line circuitry normalizing the performance of each sensor.

The ATM2400 data hub provides the user with a snapshot of the environment at any given time. For surface temperature measurement, please refer to the UTS1000 Thermocouple Sensors datasheet. The three sensors, UAS1000, UTS1000, and UHS1000 can be used simultaneously with the ATM2400 data hub to obtain air velocity and air temperature, surface temperature, and relative humidity in one instrument.

**UHS Series Humidity & 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

RH Range: 0 – 100% RH

**Relative Humidity Accuracy**

Absolute Accuracy of ±3% RH from 10-90%RH  
Repeatability is ±0.1% under same conditions

Temperature range: -40 to 123°C

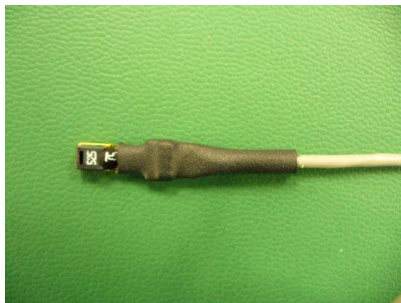
**Temperature Accuracy**

0-40°C ±0.5C  
Repeatability is ±0.1°C

**UHS1000 Series General Specifications**

Operating temperature	0°C to 70°C
Storage temperature	-20°C to 80°C
Relative humidity (non-condensing)	0-100% RH
Response Time	Less than 5 seconds – typically 4 seconds
Long term stability	Typ. < 0.5 % RH/yr
Supply voltage	Supplied by ATM2400 data hub

**Sensor Head Dimensions**



Standard cable length is 1 meter shielded from connector to sensor head

Sensor Head Dimension:  
3.7 mm x 6.5mm x 3.1mm (LxWxH)

Sensor USB Connector  
100 mm long X 17 mm wide X 8 mm thick

**Part Number Format**

**UHS1000**

*ATM2400 & UHS1000 sold separately.*

***WARNING:***  
***Specifications subject to change without notice***