



## UHS1000 Humidity Sensor with USB connector

### description

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

The AccuSense UHS1000 Series offers such features as unimpaired 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, allowing 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, which are fully normalized and calibrated to work with each other.

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 UAS1000, UTS1000, and UHS1000 can be used simultaneously with the ATM2400 data hub to obtain air velocity & temperature, surface temperature, and relative humidity in one instrument.

For use with your computer USB port or as part of the ATM2400 system.

### 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
- $\pm 3\%$  of RH reading accuracy from 0-90% RH
- Fully interchangeable with one another
- RoHS6 and lead-free

#### ATM2400 Data Acquisition Hub for USB Sensors

ATM2400 and UHS1000 sensors sold separately



### Degree Controls, Inc.

is an ISO-9001 certified world-class Designer and Turn-Key Manufacturer of control solutions for progressive technology industries. With over 15 years of proven experience, we pride ourselves in delivering solutions to our customers that provide the differentiation they need for their rapidly changing competitive landscape.

## UHS1000 series airflow & temperature measurement range

RH Range: 0 to 90% RH

Temperature range: -40 to 123°C (-40° - 254°F)

### Relative Humidity Accuracy

0 - 70°C (32° - 158°F) Greater of ±3% of RH reading  
Repeatability is ±0.1% under same conditions

### Temperature Accuracy

0-70°C ±0.3°C (32° - 158°F)  
Repeatability is ±0.1°C

## specifications

Operating temperature

0°C to 70°C (32° - 158°F)

Storage temperature

-20°C to 80°C (-4 - 176°F)

Relative humidity (non-condensing)

0- 90% RH

Response Time

Less than 5 seconds – typically 4 seconds

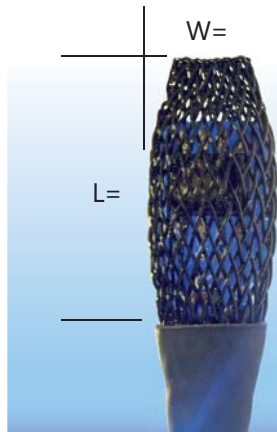
Long term stability

Typ. < 0.5 % RH/yr

Supply voltage

Supplied by ATM2400 data hub or  
standard USB port

## sensor head dimensions



Standard cable length is 1 meter (39") shielded from  
connector to sensor head

Sensor Head Dimension:

8.25mm (.325") x 19.43mm (.765") x 4.17mm (.164") (WxLxD)

Sensor USB Connector

100 mm long X 17 mm wide X 8 mm thick

## part number format

**UHS1000**

Humidity Range 0 - 90% RH

*Specifications subject to change without notice.*

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