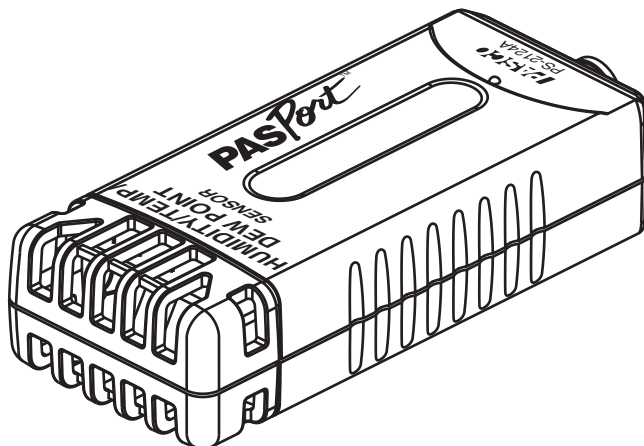


# Humidity/Temperature/Dew Point Sensor

PS-2124A



Included Equipment	Part Number
Humidity/Temperature/Dew Point Sensor	PS-2124A
Additional Equipment Required	
PASPORT Interface	See <a href="http://www.pasco.com">www.pasco.com</a> or PASCO catalog

## Quick Start

1. Connect the Humidity/Temperature/Dew Point Sensor to your PASPORT interface.
2. If you are using a computer, connect the interface to it and start DataStudio.
3. Press or click the start button to begin recording data.

## Introduction

The Humidity/Temperature/Dew Point Sensor measures absolute humidity (in units of  $\text{g}/\text{m}^3$ ) and air temperature (in  $^{\circ}\text{C}$ ,  $^{\circ}\text{F}$ , or  $\text{K}$ ). From these measurements, it calculates relative humidity and dew point.

All of these measurements are recorded by your PASPORT interface or DataStudio software. By default, data is recorded at the rate of 2 samples/s. The maximum rate is 10 samples/s.

## For Best Results

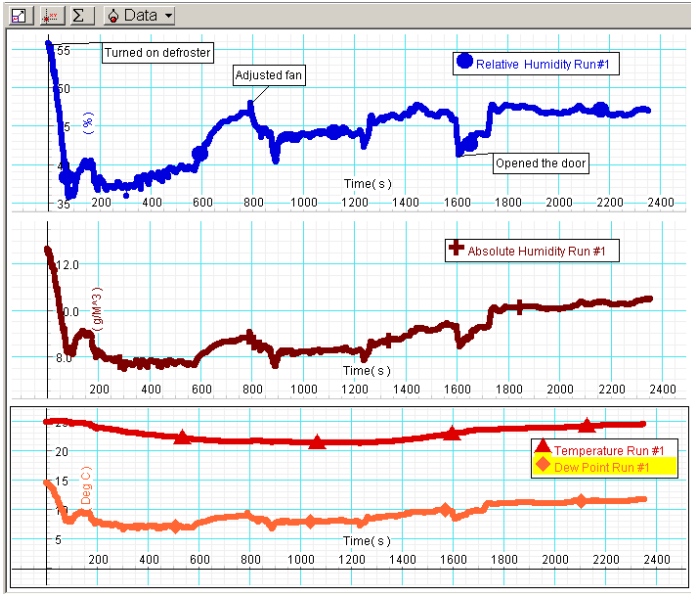
- Keep the sensor out of direct sunlight when making measurements.
- If you intend to leave the sensor outdoors, place it at least 1 m above the ground and be sure that it will remain shaded and dry.
- If the sensor will be in a still environment, such as a terrarium, use a small fan to maintain air flow through the sensor.

*Important: Do not immerse the sensor in liquid or allow it to get wet.*

## Suggested Uses

- Compare humidity, temperature, and dew point as they change over time.
- Compare humidity and temperature at various locations.
- Monitor weather conditions.
- Monitor greenhouse conditions.

## Sample Data: Humidity in a Car



## Specifications

Humidity <sup>1</sup>	
Range	0% to 100% (RH), 0 g/m <sup>3</sup> to 50 g/m <sup>3</sup> (AH)
Accuracy <sup>2</sup>	±2% (RH), 10% of reading (AH)
Resolution	1% or better (RH), 0.1 g/m <sup>3</sup> or better (AH)
Repeatability	0.5% or better (RH), 0.1 g/m <sup>3</sup> or better (AH)
Temperature	
Range	-20° C to 55° C
Accuracy <sup>2</sup>	±0.5° C
Resolution	0.1° C or better
Repeatability	0.1° C or better
Dew Point	
Range	-50° C to 55° C
Accuracy <sup>2</sup>	±2° C
Resolution	0.1° C or better
Repeatability	0.1° C or better

<sup>1</sup>RH = relative humidity; AH = absolute humidity

<sup>2</sup>Accuracy specified for typical temperature and humidity conditions

## Technical Support

For assistance with any PASCO product, contact PASCO at:

Address: PASCO scientific  
10101 Foothills Blvd.  
Roseville, CA 95747-7100

Phone: 916-786-3800 (worldwide)  
800-772-8700 (U.S.)

Fax: (916) 786-7565

Web: [www.pasco.com](http://www.pasco.com)

Email: [support@pasco.com](mailto:support@pasco.com)

**Limited Warranty** For a description of the product warranty, see the PASCO catalog.

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