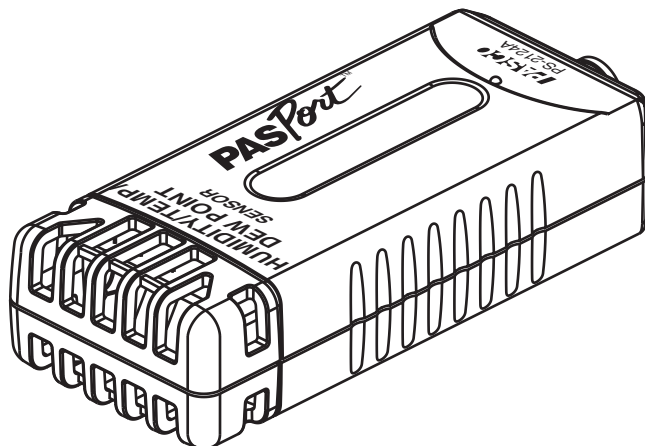


Humidity/Temperature/Dew Point Sensor

PS-2124A



| Included Equipment | Part Number |
|---------------------------------------|---|
| Humidity/Temperature/Dew Point Sensor | PS-2124A |
| Additional Equipment Required | |
| PASPORT Interface | See www.pasco.com 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 g/m^3) and air temperature (in $^{\circ}\text{C}$, $^{\circ}\text{F}$, or 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

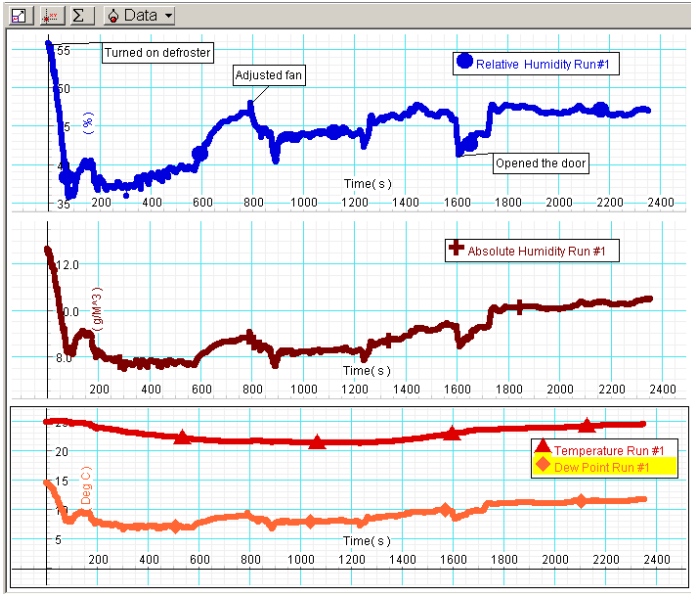
- Keep the sensor out of direct sunlight when making measurements.
- If you intend to leave the sensor outdoors, place it at least 1 m above the ground and be sure that it will remain shaded and dry.
- If the sensor will be in a still environment, such as a terrarium, use a small fan to maintain air 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 ¹ | |
|-----------------------|---|
| Range | 0% to 100% (RH), 0 g/m ³ to 50 g/m ³ (AH) |
| Accuracy ² | ±2% (RH), 10% of reading (AH) |
| Resolution | 1% or better (RH), 0.1 g/m ³ or better (AH) |
| Repeatability | 0.5% or better (RH), 0.1 g/m ³ or better (AH) |
| Temperature | |
| Range | -20° C to 55° C |
| Accuracy ² | ±0.5° C |
| Resolution | 0.1° C or better |
| Repeatability | 0.1° C or better |
| Dew Point | |
| Range | -50° C to 55° C |
| Accuracy ² | ±2° C |
| Resolution | 0.1° C or better |
| Repeatability | 0.1° C or better |

¹RH = relative humidity; AH = absolute humidity

²Accuracy 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

Email: support@pasco.com

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

Copyright The PASCO scientific 012-10223A *Humidity/Temperature/Dew Point Sensor Instruction Sheet* is copyrighted with all rights reserved. Permission is granted to non-profit educational institutions for reproduction of any part of this manual, providing the reproductions are used only in their laboratories and classrooms, and are not sold for profit. Reproduction under any other circumstances, without the written consent of PASCO scientific, is prohibited.

Trademarks PASCO, PASCO scientific, DataStudio, and PASPORT are trademarks or registered trademarks of PASCO scientific, in the United States and/or in other countries. All other brands, products, or service names are or may be trademarks or service marks of, and are used to identify, products or services of, their respective owners. For more information visit www.pasco.com/legal.