PASPORT Absolute Pressure Sensor

PS-2107

Introduction

The PASPORT Absolute Pressure Sensor measures gas pressure in the range of 0 kPa to 700 kPa. The sensor can be connected to the included syringe, or to other compatible devices, using the included connectors and tubing. The pressure measurement can be collected and displayed via PASCO Capstone, SPARKvue, or Chemvue data collection software.
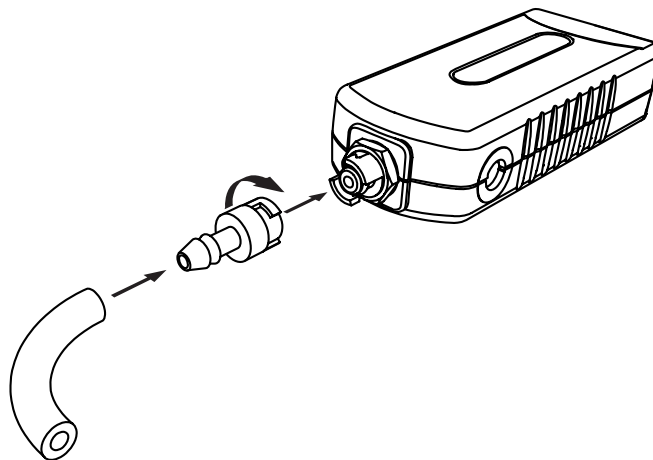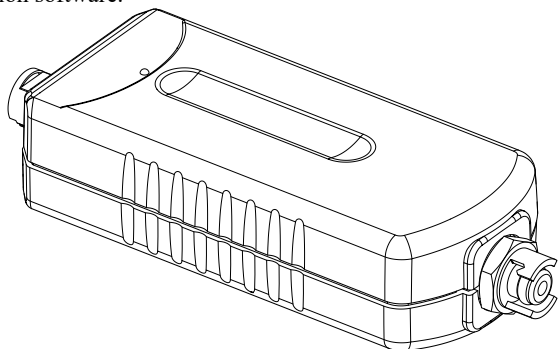

Figure 1: Connecting the tubing to the sensor.

Components

Included components:

- Absolute Pressure Sensor
- Syringe
- 4× quick-release connectors
- 4× tubing connectors
- Polyurethane tubing (0.6 m or 2 ft)

Required equipment:

- PASPORT interface
- PASCO Capstone, SPARKvue, or Chemvue data collection software

Setup

Hardware setup

1. Cut a piece of tubing to the desired length.

2. Insert the narrow end of a quick-release connector into one end of the tubing.

3. Connect the tubing to the sensor by inserting the free end of the quick-release connector into the pressure port and twisting clockwise, as shown in Figure 1.

4. Connect the free end of the tubing to the syringe or another device using the tubing connectors supplied with the sensor or other appropriate connectors.

> ♀⁺ **TIP:** The tubing connectors allow you to connect the tubing to a 5 mm (3/16 inch) hole in a rubber stopper.

Software setup

1. Start PASCO Capstone, SPARKvue, or Chemvue.

2. Connect your PASPORT interface to the program. For more detailed instructions, see the manual for your chosen interface and the PASCO Capstone, SPARKvue, or Chemvue online help.

3. Plug the Absolute Pressure Sensor into one of the PASPORT ports on the interface. The program will automatically detect and recognize the sensor.

4. Create an appropriate display for the pressure measurement from the sensor.

5. Begin collecting data.

Software help

The SPARKvue, PASCO Capstone, and Chemvue Help provide information on how to use this product with the software. You can access the help from within the software or online.

SPARKvue

Software: Main Menu 🔵 > Help

Online: help.pasco.com/sparkvue

PASCO Capstone

Software: Help > PASCO Capstone Help

Online: help.pasco.com/capstone

Chemvue

Software: Main Menu ☰ > Help

Online: help.pasco.com/chemvue

Specifications and accessories

Visit the product page at pasco.com/product/PS-2107 to view the specifications and explore accessories. You can also download experiment files and support documents from the product page.

Experiment files

Download one of several student-ready activities from the PASCO Experiment Library. Experiments include editable student handouts and teacher notes. Visit pasco.com/freelabs/PS-2107.

Technical support

Need more help? Our knowledgeable and friendly Technical Support staff is ready to answer your questions or walk you through any issues.

💬	Chat	pasco.com
📞	Phone	1-800-772-8700 x1004 (USA)
		+1 916 462 8384 (outside USA)
✉	Email	support@pasco.com

Limited warranty

For a description of the product warranty, see the Warranty and Returns page at www.pasco.com/legal.

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Product end-of-life disposal

This electronic product is subject to disposal and recycling regulations that vary by country and region. It is your responsibility to recycle your electronic equipment per your local environmental laws and regulations to ensure that it will be recycled in a manner that protects human health and the environment. To find out where you can drop off your waste equipment for recycling, please contact your local waste recycle or disposal service, or the place where you purchased the product. The European Union WEEE (Waste Electronic and Electrical Equipment) symbol on the product or its packaging indicates that this product must not be disposed of in a standard waste container.

CE statement

This device has been tested and found to comply with the essential requirements and other relevant provisions of the applicable EU Directives.

FCC statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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