

Pressure Sensor Accessories Kit

Order Code PS-ACC



This kit contains accessories for performing vapor pressure experiments, press-temperature experiments, or biology pressure experiments, using a Gas Pressure Sensor, Pressure Sensor, or Biology Gas Pressure Sensor. It contains the following parts:

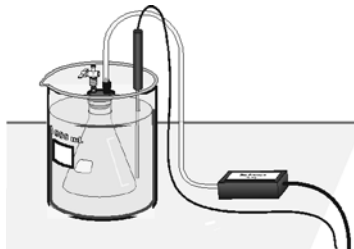
- two tapered valve connectors inserted into a No. 5 stopper.
- one tapered valve connector inserted into a No. 1 stopper.
- one two-way valve
- two Luer-lock connectors (white) connected to either end of a piece of plastic tubing.
- one 20 mL syringe
- two transpiration tubing clamps (white)

Here is a summary of some of the uses of the accessories:

The white stem on the end of the Gas Pressure Sensor Box (or one of the stems on the 3-way valve of a Pressure Sensor or Biology Gas Pressure Sensor) has a small threaded end called a *Luer lock*. With a gentle half turn, you may attach the plastic tubing to this stem using one of the Luer connectors already mounted on both ends of the tubing. The Luer connector at the other end of the plastic tubing can then be connected to one of the stems on the rubber stoppers that are supplied, as shown here.



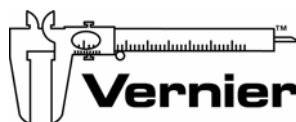
The stopper can then be inserted into a flask or test tube to provide an airtight container to investigate a confined gas, as shown below. Note: The 2nd valve on the rubber stopper is shown in a closed position.



You can also attach the 20 mL plastic syringe directly to the stem leading from a Gas Pressure Sensor (shown here) or to one of the free stems of the 3-way valve used on the Pressure Sensor or Biology Gas Pressure Sensor. This allows you to find the relationship between gas pressure and volume, also known as Boyle's law.



For biology teachers, this kit now includes airtight tubing clamps for transpiration experiments. It also has a No. 1 stopper with a tapered valve that easily connects to an 18 x 150 mm test tube, allowing for experiments that require small gas volumes.



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