

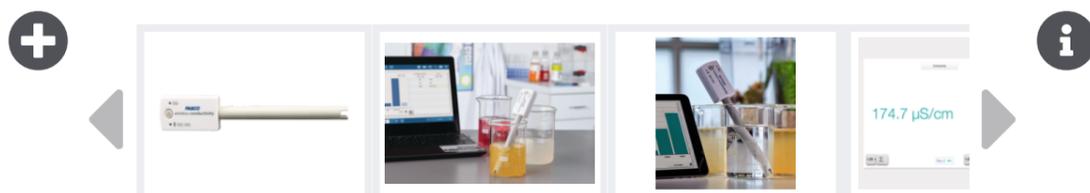
[Home](#) / [Products](#) / [Sensors](#) / [Wireless](#)

Wireless Conductivity Sensor • PS-3210

U.S. Educator Price

\$110

QTY:

[Add to Cart](#)[DESCRIPTION](#) ▶[SPECIFICATIONS](#) ▶[SOFTWARE/CONNECTIVITY](#) ▶[BUYING GUIDE](#) ▶[EXPERIMENTS](#) ▶[DOCUMENTS](#) ▶

Product Summary

The Wireless Conductivity Sensor measures the electrical conductivity of an aqueous solution. It is ideal for investigating the properties of solutions, including total dissolved solids (TDS) for water quality inquiry. Because it is temperature compensated, calibrations are less frequent and can be applied across a range of temperatures. With a range of 0 to 20,000 $\mu\text{S}/\text{cm}$, this sensor can be utilized for chemical, biological, and environmental studies.

Teacher tip: To measure brackish or marine samples above sensor range, perform a 10:1 distilled to salt water solution then multiply sample conductivity x 10.

Features

- Measure conductivity and total dissolved solids
- Automatic temperature compensation
- Battery life >1 year

- Remote logging with built-in memory
- Dust-proof, sand-proof, and water-resistant (1 meter for 30 minutes)

Applications

- Water quality investigations
- Performing conductometric titrations

- Differences between ionic and molecular compounds
- Comparing strong and weak acids

Investigating solution properties

Diffusion of ions through membranes

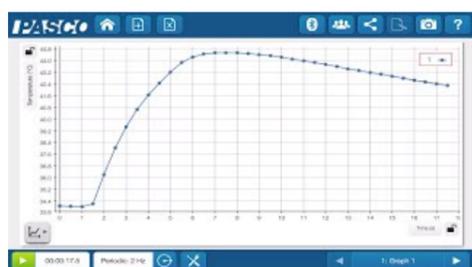
How It Works

Conductance is the reciprocal of resistance. In this case, the Wireless Conductivity Sensor determines the conductance of an aqueous solution by measuring the current flowing through the circuit created when a voltage is applied to a 2-cell electrode submerged in the solution. The electrode cell is constructed from insulating material with embedded with pieces of platinum that are placed at a fixed distance apart to serve as sensing elements. Because conductivity is dependent on temperature, the Wireless Conductivity Sensor includes a built-in temperature compensation.

What's Included

1x Coin cell battery

Product Videos



[Data Collection with SPARKvue: 30 Second](#)



[Wireless Sensors and SPARKvue 4 | Get Started](#)

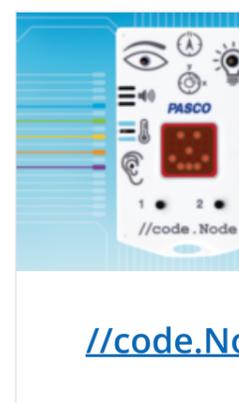
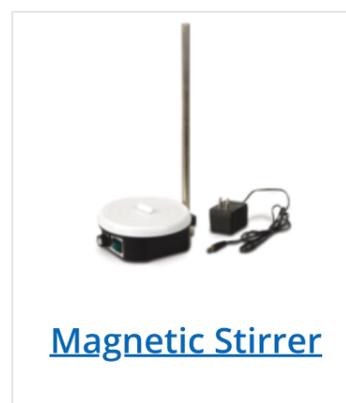
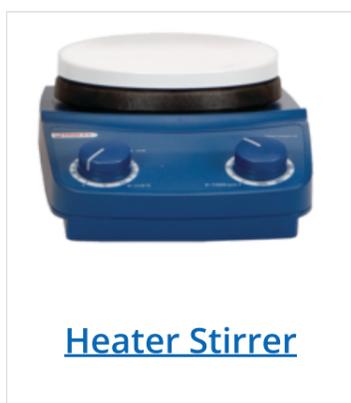


[Wireless Conductivity Sensor Overview](#)



[Conductivity Sensor](#)

Related Products & Accessories



FOLLOW US

[Newsletters, Video, and Social Media](#)



CONTACT US

[Toll Free: 1-800-772-8700](#)
[Phone: 1-916-786-3800](#)
[Fax: 1-916-786-7565](#)
[Find Your Representative](#)

GET SUPPORT

[Support Center](#)
[Submit a Request](#)
[Find Product Manuals](#)
[Software Guides](#)

ABOUT PASCO

[The PASCO Story](#)
[The PASCO Foundation](#)
[News & Media](#)
[Catalogs & Brochures](#)

