

PASPort™ Voltage/Current Sensor

PS-2115



Sensor Specifications

Sensor Ranges:	Current: 0.5 mA - ±1.0 A Voltage: 0.005V - ± 10V
Accuracy:	Current: ±2 mA Voltage: ± 20 mV
Resolution:	Current: 0.5 mA Voltage: 0.005V
Max Sample Rate:	1,000 sps
Default Sample Rate	10 sps
Maximum Input:	Current: 1.1A Voltage: 30V
Input Resistance:	Current: series resistance <1 ohm (0.8 ohm typical) Voltage: input resistance 1 meg ohm

Voltage/Current Quick Start

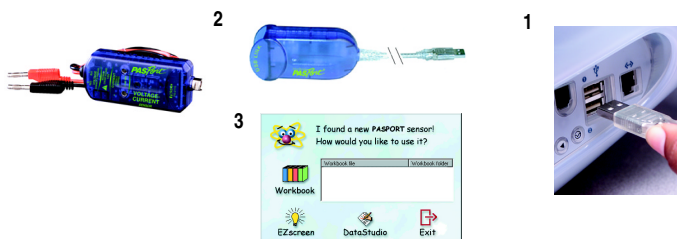
The PS-2115 Voltage/Current Sensor measures voltage across a circuit in volts and current through a circuit in amperes.

Additional Equipment Needed

- PASPORT Link Device (USB Link, Xplorer, etc.)
- EZscreen or DataStudio™ software (version 1.5 or later)

Equipment Setup

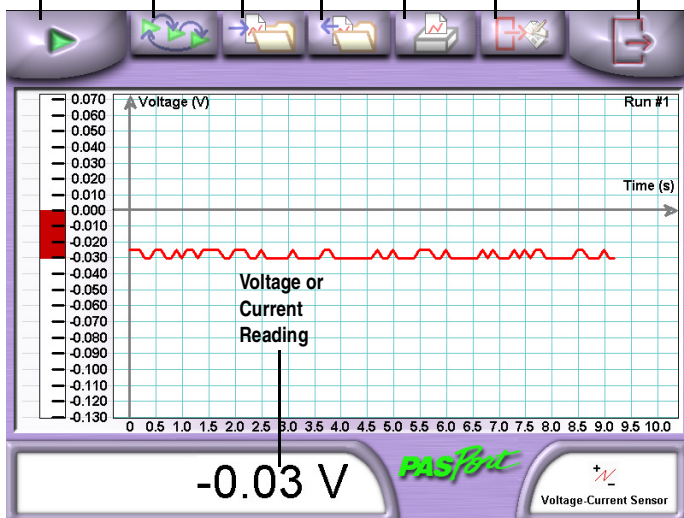
1. Connect the PASPORT Link Device to a USB port on your computer or USB hub.
2. Connect the sensor to a PASPORT Link Device.
3. The software launches when it detects a PASPORT sensor. From the PASPORTAL screen, select a point of entry:
 - an activity in the Workbook window,
 - EZscreen, or
 - DataStudio.



PASCO® 800-772-8700 • 916-786-3800 • techsupp@pasco.com • www.pasco.com

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Click the Start Button to Record Toggle Data Runs Save Data Open Data Print Graph Exit to DataStudio Quit EZscreen



Voltage/Current

EZscreen Activity

Materials List

- low-voltage power supply (i.e. 1.5V battery)

To measure the voltage of a low-voltage battery:

1. After plugging in the sensor, select EZscreen from the PASPORTAL window.
2. Connect the voltage leads across the battery.
3. Click the **Start** button to record data.
4. Click the **Stop** button to end the data run.



EZscreen Specifications

EZscreen Range:	Current: 0.5 mA - ±1.0 A Voltage: 0.005 V - ±10 V
Recording Time:	up to 2 hours
Scale-to-Fit:	Double-click the Graph to scale data
Information Tool:	Displays X,Y coordinate and slope for a point on graph
Select Voltage or Current	Double click the sensor icon in the lower right corner. Voltage is the default measurement for the sensor.
Export to DataStudio:	Click Exit to DataStudio button

Voltage/Current Sensor

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Voltage/Current Setup

The sensor setup depends on the desired measurement. At all times, adhere to the following guidelines:

1. Connect the Voltage leads across the component.
2. Connect the Current leads in series with the component.

The sensor's internal buzzer will sound if you exceed the maximum current rating of 1 amp. Currents greater than 1.1 amp may cause the sensor's internal resettable fuse to trip. If this occurs, disconnect the sensor's current leads for a few seconds to reset the fuse. Do NOT forget to correct the problem that caused the overcurrent.



To measure voltage on a battery, connect the voltage leads to the terminals on the battery.



To measure a voltage drop across a resistor, connect the leads on either side of the resistor.



To measure current through a resistor, be sure to connect one lead directly to the power source.



Do not try to measure current through a resistor by connecting the leads on either side of the resistor.