

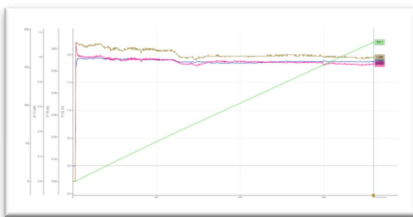


An Educational Sensor for Hands-On Renewable Energy Experiments



Wireless Energy Sensor measures voltage and current wirelessly to analyze the characteristics of renewable energy sources such as solar panels and wind turbines. With a simple connection, the sensor automatically calculates power, current, voltage, and energy output, helping students bridge theory with real-world applications. Real-time data collection and display enhance STEM learning through inquiry, analysis, and creative design projects.

The sensor supports both Bluetooth Classic and Low Energy modes, so it works easily with many smart devices and can also connect to a PC using USB. With the dedicated Science# app, students can explore a variety of functions and experiments.



Energy trend from voltage, current, and power

Science#



Technical data

Measurement performance	Range	Current: 0 ~ 1.0A Voltage: 0 ~ 36V Power: 0 ~ 36W Energy: 0 ~ 3600J (calculates)
	Resolution	Current: 1.25 mA Voltage: 1.25mV Power : 1 mW Energy: 0.1J (calculates)
	Accuracy	±0.5%
	Data update interval	5 Samples/second
	Sampling rate*	100 Hz (Available in Science#)
General Conditions	Display	OLED 0.96" (128*64 pixel)
	Operating Power	Li-Poly Rechargeable Battery (700mAh)
	Power Consumption	0.5W
	Power Requirements	USB (DC 5V, 0.5A)
	Battery life **	Approximately 6 hours(after full charge)
	Wireless Connection	Bluetooth 5.0 or 2.1+EDR
	Wired Connection	USB 2.0(Type-C)
	Operating Environment	-20 to 60°C, Max. 85%RH
	Compliance	EN 61326-1, EN 55011, EN 55032, EN 301. Ⓜ202-SMD070
Mechanics specifications	Dimension(WxLxH,mm)	90 x 68 x 23mm (Probe not included)
	Weight	120 g (4.2 oz)
	Housing Materials	POM

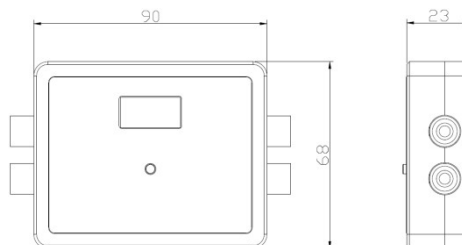
* The sample rate refers to how often the app records data, which may differ from the sensor's actual update interval.

** Battery life varies by use, configuration, temperature, and many other factors; actual results will vary.

Application

- Measure the electrical energy generated by solar panels and wind turbines
- Explore the effect of load changes on renewable energy output
- Test wind turbine blade design variables and evaluate data for optimal design

Product Appearance Design



Notices

- This product is to be used for educational purposes only. It is not appropriate for industrial, medical, research, or commercial applications.
- Our products and the contents are subject to change without any notice. In consequence we cannot assume responsibility for any consequential or other damage resulting from the use of this instrument.

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