

Overview

Joulescope JS220: Precision Energy Analyzer, Our next-generation affordable and easy-to-use instrument enables you to create better, more energy-efficient products. Measure current from nanoamps to amps while simultaneously measuring voltage, power, energy, and charge.

SIMPLIFYING LOW-POWER DESIGN

MEASURE

View instantaneous values, like a multimeter.



KEY FEATURES

- Amazing Dynamic Range
- Low Voltage Drop
- Makes the Invisible Visible
- Easy to Use
- Customizable
- Affordable

OVER TIME

Plot signals over time, like an oscilloscope.



Develop products with longer battery life and no surprises.
Simultaneously measure current, voltage, power, energy and charge.

All on your computer.

➤ Reach out to us at joulescope@gsasmspl.com



Amazing Dynamic Range

Measure current from nanoamps to ± 10 amps with seamless Enwavify™ autoranging.



Low Voltage Drop

Keep your target device running correctly with low 20 mV burden voltage.



Makes the Invisible Visible

See sleep modes, active modes, ISRs and inrush currents. Eliminate final product testing surprises.



Easy to Use

Explore real-time waveforms with a click of the mouse using the intuitive user interface.



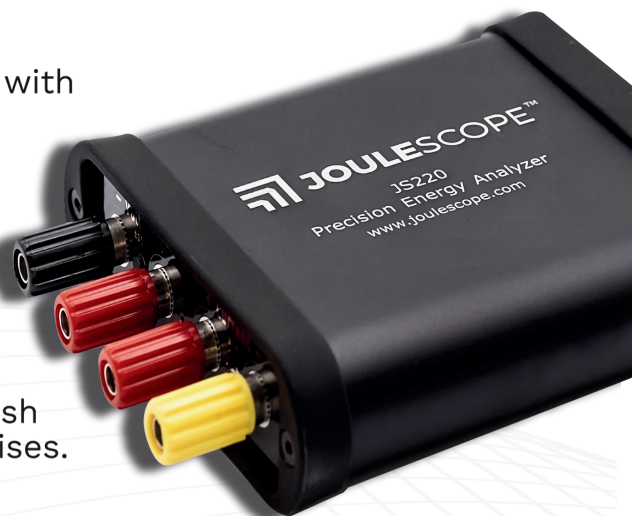
Customizable

Automate with Python. Swap front panels.



Affordable

Buy one for every developer. No subscriptions needed. Contact us for pricing!



KEY SPECIFICATIONS

- ❑ ± 10 A current range (± 3 A sustained)
- ❑ 0.5 nA resolution, 34-bit dynamic range
- ❑ ± 15 V voltage range
- ❑ 300 kHz bandwidth
- ❑ Simultaneous 16-bit ADCs, 2 Msps
- ❑ Enwavify™ 1 μ s seamless autoranging, no gaps
- ❑ Electrically isolated
- ❑ Unlimited data capture duration
- ❑ Works with Windows®, macOS® and Linux®

APPLICATIONS

- ❑ Design power-efficient hardware and software
- ❑ **Profile** and improve **microcontroller firmware**
- ❑ Troubleshoot firmware
- ❑ Test voltage regulator efficiency
- ❑ Select and **optimize batteries**
- ❑ Measure inrush currents
- ❑ Measure component leakages
- ❑ Validate units during manufacturing
- ❑ Perform USB inrush and suspend testing
- ❑ Measure current and voltage