

USB Charger Doctor – In-line Voltage and Current Meter

PRODUCT ID: 1852



DESCRIPTION

Help! This patient is heating up! Is the voltage too low? Is the current draw too high? Is there a doctor in the house? Oh, thank goodness, the Charger Doctor is here! Right on time...Doctor, can you tell us what the current draw is? What about the voltage? Thanks to the Doctor, you will now be able to watch and care for your USB-powered projects.

Use the USB Charger Doctor to measure the working voltage and current output for any USB port and project. This blue plastic dongle plugs between a USB device, and passes the data lines through. There's a 0.05 ohm resistor in line with the power pin that is used to measure current draw. The Doctor's digital display instantly reads the numbers out for testing devices such as chargers, cables, and cell phones.

You can use this device from 3.5–7VDC input voltage (although most USB devices tend to hover around 4.75 to 5.25) and up to 3A of current. It flips between voltage and current readouts every 3 seconds or so. It's a very handy tool for testing USB devices, checking load levels and debugging battery chargers and boost converters. It's a little chunkier, but more numerical than our USB Power Gauge Mini-Kit. It's also not open source so check out the USB Power Gauge mini kit if you want to hack together your own power gauge indicator.

Technical Details

Dimensions:

21mm x 53mm x 15mm / 0.8" x 2.1" x 0.6"

USB Plug: 13mm / 0.5"

Weight: 16.2g

Specifications:

USB 1.x and 2.x – all data speeds. Does not have USB v3 pins
so USB v3 connections will automatically downgrade to v2

Working Range: 0~3A, 3.5~7VDC

Resolution: 10mV / 10mA

Operating Temperature: 0~60°C