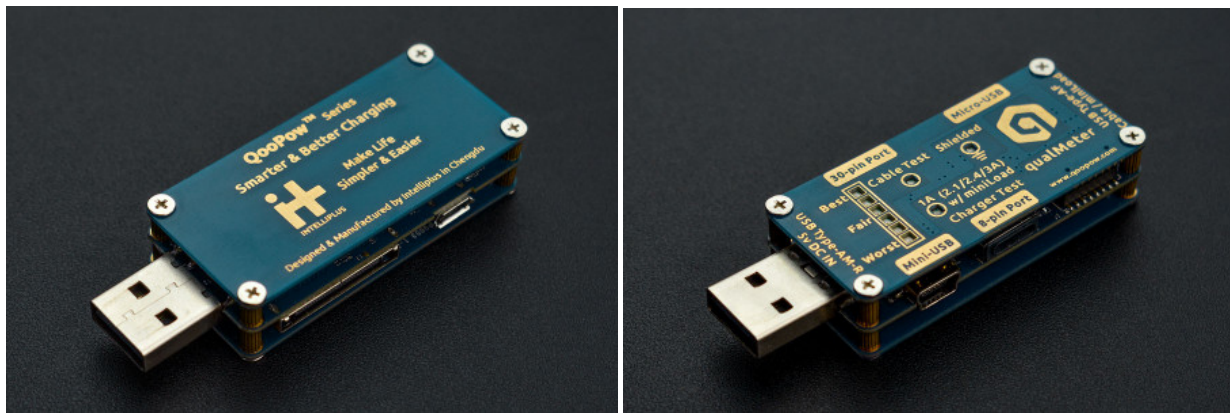


USB Cable and Charger Tester – qualMeter (Basic)

SKU:FIT0517



INTRODUCTION

qualMeter is an easy and cost-efficient DIY device, which can help you to simply diagnose the quality of your USB charging cable and charger in a glance.

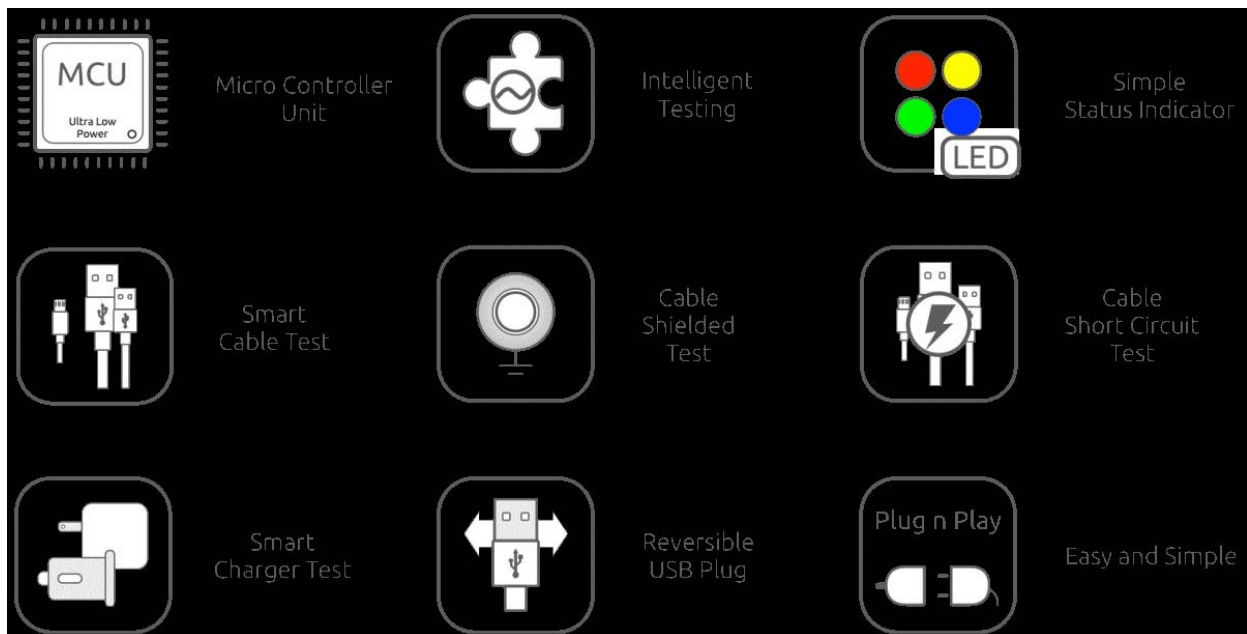


Unlike those expensive and bulky professional devices, qualMeter intends to provide a compact (portable), easy and simple solution at a fairly low cost. It's designed for non-tech people but can be very handy to tech-savvies for roughly testing as well.

There are no numbers to read, no buttons, no extra operations, no calculations and no technical background is needed. All you need to know is just colors, the Green, Yellow and Red, which correspond to Best(Good), Fair (OK) and Worst(Bad). That's it!

You see the colors; you see the quality of your cable and charger.

qualMeter handles a wide range of mainstream USB charging cables. It also tests loading capability of the 5V chargers to roughly define their quality.



A smart device for smart decisions

qualMeter has embedded a smart, ultra-low power Micro-Processor. It works seamlessly to provide two major functions, Cable Test mode and Charger Test mode.

There are no number readings and no calculations! qualMeter directly tells you the testing results by LEDs. It's really that simple and easy!

The qualMeter series has two main family members: qualMeter Basic and qualMeter X.

| Items | qualMeter Basic | qualMeter X |
|---|--|---|
| Main Material | Raw PCB (CCL FR-4) Pb free | Raw PCB (CCL FR-4) Pb free Transparent PC |
| Color (PCB) | Blue | Red |
| Surface Marking Treatment | Gold coated marking | |
| Dimension (USB Type A Female not included) | 52.8mm x 23.8mm x 11mm | 62.8mm x 32.8mm x 15.8mm |
| Power Input | USB Type A Reversible Male Connector | |
| Input Voltage | 4.5-5.5Vdc | |
| Cable Test Connectors | USB Type A Female, Micro-USB Type A Female Mini-USB Female, 30-pin Female and 8-pin Female | USB Type A Female, Micro-USB Type A Female Mini-USB Female, 30-pin Female, 8-pin Female and 2x USB Type-C Female |
| Cable Test Current | 1A@5Vdc | 1A or 2A@5Vdc Auto determination of testing current |
| Charger Output Test Range | 1A/2.1/2.4/3A (4 stops) | 1-3.1A, 100mA each step with Compensation Indicator |
| LED Indicators | Green x2(Good), Yellow x2(Fair), Red x2(Worst), Blue x2(Cable Test) and Orange x1(Charger Test) | Green x2(Good/400mA/300mA), Yellow x2(Fair/200mA/100mA), Red x2(Worst), Blue x2(Cable Test) and Orange x6(Charger Test) |

qualMeter Basic is designed for non-tech people who have very limited knowledge on electronics.

qualMeter X is more for people who wanted to know more about your charging environment.

| Functions | qualMeter Basic | qualMeter X |
|--|------------------------------------|---------------------------------|
| Easy LED Indicators | Y | Y |
| Support MicroUSB, MiniUSB, 8-pin, 30-pin | Y | Y |
| Reversible USB Type A input port | Y | Y |
| Basic Cable Testing @1A | Y | Y |
| Cable Shielded Test | Y | Y |
| Cable Short Circuit Test | Y | Y |
| Basic Charger Test @1A | Y | Y |
| Plug n Play | Y | Y |
| Advanced Charger Testing @1-3.1A | Y (Partial), 4 stops with miniLoad | Y (Full Range), 100mA each stop |
| MCU (Micro-Processor) | 8-bit, 8MHz | 32-bit, 48MHz |
| Support USB Type-C | N | Y, 2 ports |
| Advanced Cable Testing (up to 2A) | N | Y |
| Adjustable Electronic Load | N | Y |
| Charger Output Compensation Test | N | Y |
| Flash memory | N | Y |
| Enclosure | N | Y |
| Extension Port for Future Functions | N | Y |
| Firmware Upgradeable | N | Y |

The charger testing range is extendable to 2.1/2.4/3A by adding specially designed miniLoad.

SHIPPING LIST

- USB Cable and Charger Tester – qualMeter (Basic) x1

<https://www.dfrobot.com/product-1640.html> 11-2-17