

# PORTPILOT TECHNOLOGIES

INNOVATIVE TOOLS FOR USB POWER MANAGEMENT AND DIAGNOSTICS

## PortPilot Inline USB Power Analyzer - Quick Start

For more information please go to [www.PortPilot.net](http://www.PortPilot.net) or contact [support@portpilot.net](mailto:support@portpilot.net)

Output:  
connect to  
USB device  
(phone, USB  
drive or any  
peripheral)

Button: Press to switch  
between data  
blocking/passing  
mode. Hold to toggle  
backlight.

Auxillary data port  
(back): Connect to PC  
to collect data and  
control device settings

Input: connect  
to USB host  
(charger, PC,  
etc)



PortPilot is an inline USB power analyzer. Connected to a USB power source (computer, charger, etc.) PortPilot will display the charger type and capacity:



When the output port is connected to a device, PortPilot's display will update to show the current flowing to the device, power, and total energy:



Preliminary Specifications:

Function	Ranges/Description
Input voltage operating range	3V - 5.5V
Current measurement	0 - 3.0A, accuracy <3%, resolution 1 mA
Current sensing element	0.025 ohm high side sense resistor
Burden voltage	50mV @ 1A (typ.) Note: high side sense resistor and high side switch contribute to burden/dropout.
Voltage measurement	Resolution 1 mV, accuracy <3%
Fuse limit range	3mA - 3.0A Note: fuse limit is disabled by default. Use utility and auxiliary data port to configure fuse limit.
Power consumption, internal circuitry	30 mA/20 mA (backlight hi/low). Note: if connected, power for PortPilot's internal circuitry will be preferentially drawn from the auxiliary data USB port.