This device is a digital USB voltmeter that allows you to measure voltage automatically. It can provide quite accurate digital measures for low DC voltage (0.01 Volt accuracy), but works as well for higher voltage, including AC, up to 250V (RMS), with an accuracy of 3%.

This device is insulated, which means that the sensor part is electrically disconnected from the USB part: you can measure any voltage difference between -250V and 250V, without risk of frying your computer.

The modules provides immediate reading on USB, and can also store measures on the device internal flash for later retrieval when connected again by USB.

Electrical Sensors

Specifications

Product ID	VOLTAGE1
Hardware release[†]	Rev. C
USB connector	micro-B
Width	20 mm
Length	50 mm
Weight	6 g
Refresh rate	10 Hz
Input impedance	660 KΩ
Measuring range	-250...250 V DC/rms
Max working voltage	250 V r.m.s.
Accuracy (AC, 50Hz/60Hz)	0.1V / 1%
Accuracy (DC)	0.01V / 0.5%
Sensitivity	0.01V 0.2%
Measurement category	Cat II
IEC protection class	class II
USB insulation, clearance dist.	4.5 mm
USB insulation, creepage dist.	3 + 2.6 mm
USB insulation, dielectric strength (1 min.)	1.5 kV r.m.s.
Normal operating temperature	5...40 °C
Extended operating temperature[‡]	-30...85 °C
RoHS compliance	RoHS III (2011/65/UE+2015/863)
USB Vendor ID	0x24E0
USB Device ID	0x001B
Suggested enclosure	YoctoBox-Long-Thick-Black
Harmonized tariff code	8542.3190
Made in	Switzerland

[†] These specifications are for the current hardware revision. Specifications for earlier revisions may differ.

[‡] The extended temperature range is defined based on components specifications and has been tested during a limited duration (1h). When using the device in harsh environments for a long period of time, we strongly advise to run extensive tests before going to production.

For more information: www.yoctopuce.com/EN/products/yocto-volt