

The professional tool for industries...

When your installation needs

- Device separation
- Overvoltage protection



...and sensitive applications
If protection matters

- Fitness machines
- Medical devices

Certification to the highest safety standard IEC 60601-1 Rev 3.2

Protection and security for human, device and PC

Usage and benefits

The USB isolator is used to uncouple the electrical potential of any USB device from PC or hub. It is the professional tool for avoiding and fighting ground loops, equalizing currents and protection against overvoltages.

Its unique high isolation voltage together with the TÜV certification to the highest safety standard IEC 60601-1 Rev 3.2 and encapsulated in an extra protective housing, ensures safety especially in medical and other critical applications.

Energy transformer with reinforced isolation transfers up to 500mA from the primary USB connector to the secondary side for USB supplied devices.

Product features

Designed for certified quality

- Tested for world-wide unique 7.5kV isolation
- Certified against highest safety standard IEC 60601-1 Rev 3.2
- For all medical and industrial applications
- Supports all USB devices with USB full-speed (12Mbps)
- Isolated energy transfer to secondary side
- Overload protection
- Extra safe and easy usage just by exchanging the existing USB cable with the isolator cable
- Detailed status indication with multi-coloured LED
- Very compact and robust isolation housing with rubber bands
- Made in Germany 3 years warranty



Applications



Good to know

Certified against EN60601-1 Rev. 3.2 means the highest quality standards and reliability through selected components and best possible design. You should not expect less!







Medical & Fitness

Whenever a human is connected to a PC for medical or monitoring reasons you must take precautions that the person must never suffer harm due to possible or accidental defects. Safety first always applies!

Industry and sensitive applications

To protect control systems and PCs against power surge, voltage burst and ground loops caused by connected USB devices working in harsh environments.









Makers & Developers

For all people who develop, test or simply work with USB devices and want to avoid to damage their USB hub or, even worse, their PC just by accident.

Audio & Sound studios

Fighting buzzing and other unwanted noises coupled by connected Audio/Midi devices with own power supply forming a ground loop. The isolator Full Speed 12Mbps is sufficient for sample rates up to 96kHz/24bit.







And just in case...

Do not take any risk when you need to connect a used and possibly defective USB device with your irreplaceable PC. Especially in the service area. Always play it safe with the ISOUSB-PLUS-CABLE.

ISOUSB-PLUS-CABLE Certified USB Isolator

Operation hints



Setting isolator in operation

The starting up of the isolator is done in a few steps. Since the device handles the USB communication completely automatic no manual setups are necessary. The installation is easy. Just exchange the USB cable for the isolator cable — wrong connections are not possible.

- 1. Insert isolator between your PC and USB device
- 2. Observe the isolator status LED



Please pay attention to the following hints! Especially in critical and sensitive application fields like the medical technology some applications requirements have to be followed!



High voltages may be attached! It is the responsibility of the user to take care for a sufficient insulation and protection against contact of the floating system components!

Warning hints

According to its task the isolator splits by its complete isolation one electric circuit with a common ground line into two circuits with a floating voltage relationship.

If no method is implemented to prevent drifting voltage ranges from each other, i.e. by a common earthing, large floating voltage differences between primary and secondary side can occur. These can lead to serious danger when not isolated parts of the circuits are touched.

If no voltage equalization can be done by earthing or must not be done in the special application, care must be taken that the permanent potential difference between both sides does not exceed the working range of the isolator, specified in the technical data.

Basic rules for this device

The requirements of professional devices are so that a usage in the living range or a connection to public supply is allowed.

The device must not be used for live-supporting functions.

The connections between PC and isolator and between the isolator and the end device with cables of more than 5m length (cable extension) is not certified for critical applications.

The device generates high frequency. Any electronic devices are subject to special precautionary measuring in particular regarding the EMC with the installation and operation. Portable and mobile HF-communications devices such as phones can effect other electronic devices.









LED	Isolator status
	Prim. active, isolator powered up
	Prim. and/or Sec. in standby
	USB connection established
	No USB connection - caution!
	Sec. overcurrent error!



Special care is necessary for the operation of this product. Please read the manual carefully.

Scan/click for PDF manual





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Technical changes and improvements can be done without prior notice

ISOUSB-PLUS-CABLE Certified USB Isolator

Technical data



90cm

Sec

Protection & Isolation

Isolation strength Certified 4000Vrms 1min, reinforced isolation, 2*MOPP.

Permissible and tested with single isolation:

5000Vrms 1min, 7500Vdc 1sec.

Working range 250Vrms permanent potential difference.

Transient protection Integrated protection diodes with appr. ±15kV according to

IEC 61000-4-2.

Protection class Safety class II, Housing IP30.

Overload protection The output is short-circuit protected. Overload indication by

red LED. In this case the output is switched off.

Certifications

Approval IEC60601-1:2020(Ed3.2), IEC60601-1-2:2015,

2*MOPP,

EN55011 Class B. FCC 47 CFR Part 15 ICES-003: Issue 6, JIS T 0601-1:2017 (IEC 60601-1:2005 + A1:2012 + A2:2020),

CB certificate available.

Connectivity

Input Supply through USB, 5Vdc, max. 0.9A in case of overload.

Input connecter: Cable with USB Jack Type A.

Output USB standard signals. Supply 5Vdc, 500mA minimum.

Output connector: Cable with USB Jack Type B

Transmission USB 2.0+1.1 Full speed (12Mbit/s), completely transparent

and invisible (no driver needed).

Energy transfer Primary to second side max. 3W, efficiency about 85%.



The total length of the connected USB cables must not exceed 5m each!

Environment

Work environment 0° C to +40°C, 20 - 90% humidity, 500 - 1060hPa pressure Storage/Shipment 0° C to +70°C, 0 - 90% humidity, 500 - 1060hPa pressure

What you get

Content Certified USB Isolater ISOUSB-PLUS-CABLE with

integrated 90cm USB cables on both sides.

Detailed bilingual 16 pages manual in German and English.

Warranty Made in Germany, 3 years warranty.

Variant

ISOUSB-PLUS-BOX Single box with integrated high retention USB sockets. Primary: USB Jack Type A, secondary USB Jack Type B.









Prim

59mm

Multi-Color

ISOLISB-

96cm

USB-Isolator

Available on our Online Shop

= 2200

Price: 189 €

without tax

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