W& I connects

Interfaces for TCP/IP, Ethernet, RS-232, RS-485, USB, 20mA,
glass and plastic fiber optic cable, http, SNMP, OPC, Modbus TCP, I/O digital, I/O analog, ISA, PCI

W&T
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Data sheet:

USB Isolator 1kV

Article no.: 33001

EUR 118.00

*Net price for
commercial users

Galvanic isolation for USB devices

The USB Isolator 33001 galvanically isolates Low-Speed and Full-Speed connections from the USB host and protects the hardware behind it.

Properties

Interfaces:

- **1 x USB socket, type A**
- **1 x USB male, Type A**
- **Galvanic isolation between the ports**
  - Isolation voltage min. 1kV DC
  - Do you need greater galvanic isolation? - See Isolator 33204

Management and connectivity:

- **Supports low-speed and full-speed USB devices**
- **Solution integrated into USB cable for plug-in**

Power supply:

- **External supply voltage for the downstream side**
  - enables connection of power-hungry USB devices

Standards & more

- **Conforms to standards both in office and industrial environments:**
  - High noise resistance per EN 61000-6-2
  - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**

♥ Wish for something!
Your suggestions for improvement and additions

Worth knowing

USB interface:
USB interfaces in stationary computers unfortunately have the basic drawback of having no galvanic isolation for the signal lines.

In many applications in the consumer world this limitation is irrelevant, since the USB devices connected to the PC are generally supplied through the bus and do not have any reference to a second ground or to the ground conductor.

In the areas of measurement reading, process control or for example medical technology, galvanic isolation of the connected devices is mandatory in order to prevent ground loops on the USB line.

To this end W&T offers a family of USB isolators which differ in their mechanical configuration and in their supply voltage and amount of isolation voltage.

Technical data

Connections and displays:

USB port:	1x Type A male
	1x Type A female
USB speed:	Configurable: Low Speed (1.5 Mbps)
	Full Speed (12 Mbps)
Galvanic isolation:	Isolation voltage min. 1kV DC
Supply voltage:	+5V DC
Current consumption:	typ. 8mA @5V DC
Supply connection:	USB Type B Mini female
Displays:	1x LED Power IN
	1x LED Power OUT

Housing and other data:

Enclosure:	Plastic small housing
	55 x 30 x 16mm (L x W x H)
Enclosure rating:	IP20
Weight:	approx. 150g
Ambient temperature:	Isolator:
	Storage: -40..+70°C
	Operating: 0..+70°C
	Power supply:
	Storage: -40..+70°C
	Operating: 0..+40°C
Permissible relative humidity:	5..90% relative humidity, non-condensing
Scope of delivery:	USB Isolator 1kV
	USB power supply 5V / 1.0A (only with Euro plug)
	Manual

* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.

W&T
www.WuT.de

We are available to you in person:

Wiesemann & Theis GmbH
Porschestr. 12
42279 Wuppertal
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)
Fax: +49 202/2680-265
info@wut.de