

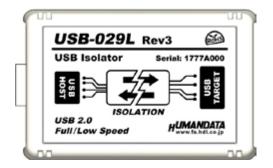
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USB Isolator Compact

USB-029L (Rev3)

User's Manual

Ver. 2.0



HuMANDATA LTD.



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• Precautions

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\bigcirc	1	This product uses ordinary off-the-shelf electronic components, and is therefore inappropriate for use in applications that require special quality or reliability and are expected to protect human lives or
		prevent accidents, such as safety mechanisms in fields including
Do Not		space, aeronautics, medicine, and nuclear power.
	2	Do not be used underwater or in high-humidity environments.
	3	Do not be used in the presence of corrosive gases, combustible gases,
		or other flammable gases.
	4	Do not turn on power when circuit board surface is in contact with
		other metal.
	5	Do not apply voltage higher than rated voltage.
•	6	This manual may be revised in the future without notice owing to
$\mathbf{\Lambda}$		improvements.
	7	All efforts have been made to produce the best manual possible, but
		if users notice an error or other problem, we ask that they notify us.
Attention	8	Item 7 notwithstanding, HuMANDATA cannot be held liable for the
		consequences arising from use of this product.
	9	HuMANDATA cannot be held liable for consequences arising from
		using this product in a way different from the uses described herein,
		or from uses not shown herein.
	10	This manual, circuit diagrams, sample circuits, and other content

may not be copied, reproduced, or distributed without permission.

If the product emits smoke, catches fire, or becomes unusually hot,

Do not install the control cables or communication cables together with the main circuit lines or power cables. In such an environment,

it may result in malfunction due to noise.

cut the power immediately.

Be careful of static electricity.



• Revision History

Date	Revision	Description
Apr. 11, 2017	v2.0	Upgrade product version to Rev 3.

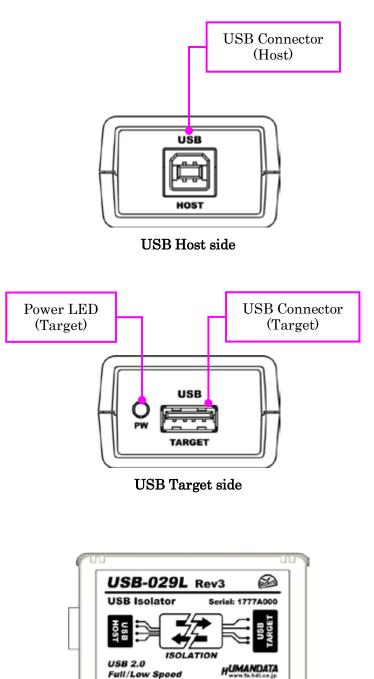
Introduction

Thank you very much for purchasing our product USB-029L.

USB-029L is a USB 2.0 Full Speed (12Mbps) and Low Speed (1.5Mbps) compliant isolator that isolates between a USB host and a USB peripheral device.



1. Overview



TOP side

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2. Feature

USB-029L is a USB 2.0 Full Speed (12Mbps) and Low Speed (1.5Mbps) compliant isolator which isolates between a USB host and a USB peripheral device. With USB-029L, it can be expected to eliminate ground loops that can cause measurement errors and equipment from surges, common-mode voltage, static discharge, magnetic fields, and radio frequency interference. There is no need to install any drivers. It works with every operating system such as Windows, Linux, Mac OS X.

3. Connection

You can use an included USB cable to the host side connector to the host (such as a personal computer), and connect a USB peripheral device to the target side connector.

4. Power Supply

USB-029L is powered through a USB port (Bus-powered).



5. Specifications

5.1. Product Specification

Item	Description	Remarks	
Model	USB-029L		
Input Power	5VDC Supplied through a USB port (Bus-powered)	No external power supply required	
Current Consumption	Less than 100mA + current of the target device	Target device: 400mA max. (Lower than the supply capacity of the host side)	
HOST interface	USB 2.0 Compliant (Supports Full and Low Speed)	USB 1.1 compatible High Speed is not supported ESD protection	
Isolation Method	Bus isolation		
Isolation Protection	2500VDC	Designed value	
Support OS	OS-Independent (No drivers required)		
LED	PW: Power		
Operating Ambient Temperature	-20 to 60 [°C] (-4 to 140 [°F])	No condensation consistend	
Operating Ambient Humidity	30 to 85%RH		
Storage Ambient Temperature	-20 to 60 [°C] (-4 to 140 [°F])	No condensation permitted	
Storage Ambient Humidity	30 to 85%RH		
Weight	Approx. 50 [g]	Only main body	
Dimensions	67 x 43.5 x 27 [mm] (2.638" x 1.713" x 1.063")	Without projections	



6. Additional Documentation and User Support

The following documents and other supports are available at http://www.hdl.co.jp/en/faspc/USB/usb-0291

- User's Manual
- Outline drawing ... and more.

7. Warranty and Compensation

Please refer to the following URL for the warranty. http://www.fa.hdl.co.jp/en/fa-warranty.html

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