


USB-201

User's Manual

Ver.1.1

April 22, 2025

Precautions (Please be sure to read before use.)

 Do Not


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 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.

 Attention

6. This manual may be revised in the future without notice owing to 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.

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.

11. If the product emits smoke, catches fire, or becomes unusually hot, cut the power immediately.

12. 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.

13. Be careful of static electricity.

1. Revision History

Date	Revision	Description
Mar. 27, 2020	1.0	Initial release
Apr. 22, 2025	1.1	Change: Specifications of AC adaptor

2. Product packaging

Thank you very much for purchasing the USB-201. In this package, you will find the following items included. If there are any shortages or issues, please contact us.

☐ USB Multiplexer 8:1 USB-201

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☐ USB2.0 A - B cable (1.8m)

1

☐ USB2.0 A - mini-B cable (1.0m)

1

☐ AC adapter

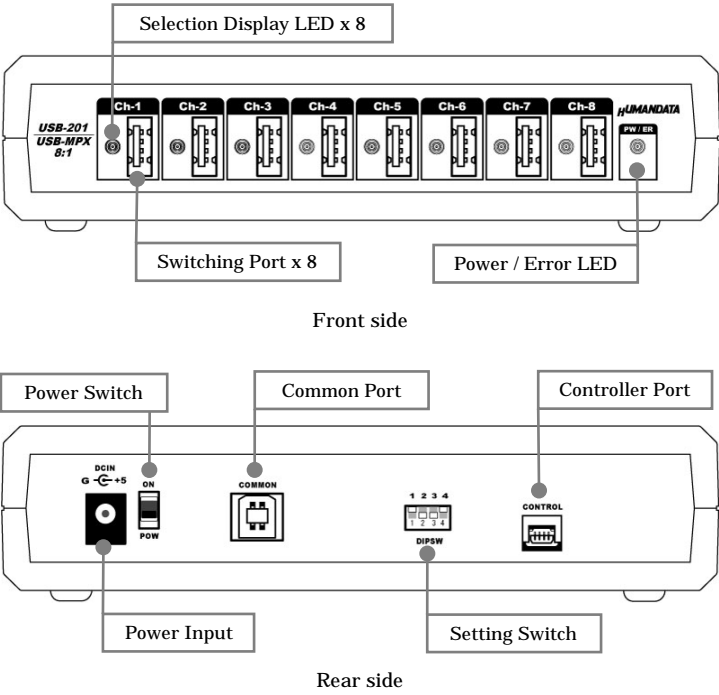
1

3. Introduction

USB-201 is a USB 2.0 High Speed(480Mbps), Full Speed(12Mbps) and Low Speed(1.5Mbps) compliant 8 port USB multiplexer. Connect to USB port for control and transmitting a simple command from your PC. 8 port USB can be switched arbitrarily. It can promote labor-saving for testing process and auto-testing system of USB devices.

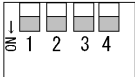
\* Switching USB 2.0 port is the same as removing and re-mounting USB device. When you switch USB 2.0 port, it is necessary to confirm removing and recognizing the device by your application.

4. Overview



5. Setting Switch

The function of these switches is not opened. Please set them to OFF.



6. Power Input

USB-201 is self powered; cannot be operated by bus-power. Please input power by attached AC adaptor

7. Controller Command

You can control with simple single character command shown in the following table by using terminal software and keyboard. Each controller command is an ASCII text. The command is case sensitive.

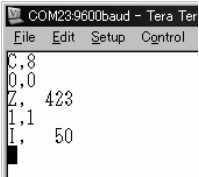
Send Command	Function	Response
'1' ~ '8'	Select USB port from 1 to 8	<CMD>,[active channel]<CR>
'0'	Select no USB port	<CMD>,0<CR>
'C'	Get active USB port	<CMD>,[active channel]<CR>
'I'	Get electric current value	<CMD>,[current value]<CR>
'Z'	Set current offset value (set the current sensor value as base value)	<CMD>,[offset value]<CR>
'X'	Clear current offset value	<CMD>,[offset value(=0)]<CR>
'V'	Get product version	"USB-201 Ver.***"<CR>
other	-	"Undefined command"<CR>

<CMD> : response sending command  
<CR> : Carriage Return (0x0D)

Current value is monitored by mounted current sensor circuits. It is not calibrated. Please think the value is just for reference.

Communication example

First clear all USB connections, then set current offset value, and set USB port ch.1 active and get the value 50 as current value.



8. Product Specification

Item	Description	Remarks
Model	USB-201	
Power Input	DC 5 [V] / under 250 [mA] (when USB port not selected)	Supplied by AC adapter
Channel	8 ch	
Target side port OS	not limited	ESD protection
Control side port OS	Windows 11/10/8.1/8/7	
Controller Port	USB mini-B connector USB 2.0 Full-speed	ESD protection
Common Port	USB B connector USB 2.0 Hi / Full / Low-speed	ESD protection
Switching Port	USB A connector x 8 USB 2.0 Hi / Full / Low-speed	ESD protection
Current Measure Function	Simple Current Monitor Circuit is mounted	
Control Method	Communication control by virtual COM port	baud-rate and other conditions are optional
Status LED	Power / Error x 1 Selection display x 8	bi-color LED
LSI	MAX4999 USB2.0 Multiplexer	MAXIM
Operating Ambient temp.	0 to 60 [°C] (32 to 140 [°F])	No condensation permitted
Operating Ambient Humidity	30 to 85%RH	
Storage Ambient temp.	-20 to 55 [°C] (-4 to 131 [°F])	
Storage Ambient Humidity	30 to 85%RH	
Noise Tolerance	Not defined	
Safety Standard	Not defined	
Weight	Approx. 300 [g]	Only main body
Dimensions	165 x 80.5 x 39 [mm] (6.496" x 3.169" x 1.535")	Without projections

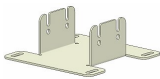



\* There is a case to be changed to the parts of the compatibility  
\* Power saving function (suspend, standby, sleep and others) is not supported

9. AC adapter (Japan's specifications)

Item	Description	Remarks
Input	AC100 ~ 240V 50/60Hz 0.45A	
Output	5VDC 2.0A	Positive Tip
Plug	2.1mm inner diameter	
Compatible DC Jack	2.1mm inner diameter	
Operating Ambient temp.	0 to 40 °C	No condensation permitted
Operating Ambient Humidity	10 to 90 % RH	
Storage Ambient temp.	-20 to 80 °C	
Storage Ambient Humidity	5 to 95 % RH	
Wire Length	1.6 [m]	
Weight	approx. 70 [g]	
Dimensions	46 x 37 x 22 [mm] 1.811" x 1.457" x 0.866"	Without projections

\* This AC adapter is attached for use mainly in Japan. If you use in the other countries, please check the specifications above and plug shape.  
\* There may be cases that this part and specifications are changed.

10. Optional Accessories

Model	Image	Description
ACC-027		Attachment for vertical direction JAN: 4937920801096
ACC-028		Attachment for horizontal direction JAN: 4937920801102
ACC-031		Attachment for DIN rail type B JAN: 4937920801256
ACC-036		Neodymium magnet set JAN: 4937920801539

11. CDC Class Driver Installation Guide

This product uses the CDC (Communication Device Class) driver, which is included in the operating system.

- | **Windows 10 or later:**  
No driver installation required  
Automatically recognized as a "USB Serial Device (COM\*)".
- | **Windows 8.1 or earlier or to display the model number of this device on the Device Manager in Windows 10 or later:**  
Driver installation required

12. Additional Documentation and User Support

The following documents and other supports are available at

- Product Documents: <https://www.hdl.co.jp/en/faspc/USB/usb-201/>
- Support Center: <https://www.fa.hdl.co.jp/en/support.html>

13. Warranty and Compensation

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

14. Contact us

Please contact us using the inquiry form on our company's website or email us at [SPC2@hdl.co.jp](mailto:SPC2@hdl.co.jp), providing the product model number and serial number.  
Please note that it may be difficult to provide technical support over the phone. We kindly ask for your cooperation in using email or other means of communication whenever possible.

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